EPA Registration Number 87290-30

Material Sent for Data Extraction

Reg. # そ7390-30 Description: ATT. CSFS Material(s) Sent to Data Extraction Contractors: New Stamped Label Dated _____ Notification Dated _____ New CSF(s) Dated # 243 dated 4/13/14 Other: _____ Decision #: ______ Other Action/Comments:_____ File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716. Reviewer: 2 41 Phone: 347-89161 Division: 150 Date: _ 5heh7



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Applicant Willowood LLC 1600 NW Garden Valley Blvd.

Suite 130

Roseburg, OR 97471

Mailed To Agent Lori Kohler

Wagner Regulatory Associates, Inc.

P.O. Box 640

Hockessin, DE 19707

Subject:

Willowood Mepi Chlor 4.2%

EPA Reg. No. 87290-30 Notification dated 4/9/12 EPA Decision No. 464640

MAY 1 6 2012

Dear Ms. Kohler

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The alternate confidential statement of formula (CSF) numbers 2 and 3; both dated 4/9/12, are acceptable and will be added to the regulatory file for the product. If you have any questions, please contact Shaunta Hill at 703-3437-8961 or by email at hill.shaunta@epa.gov.

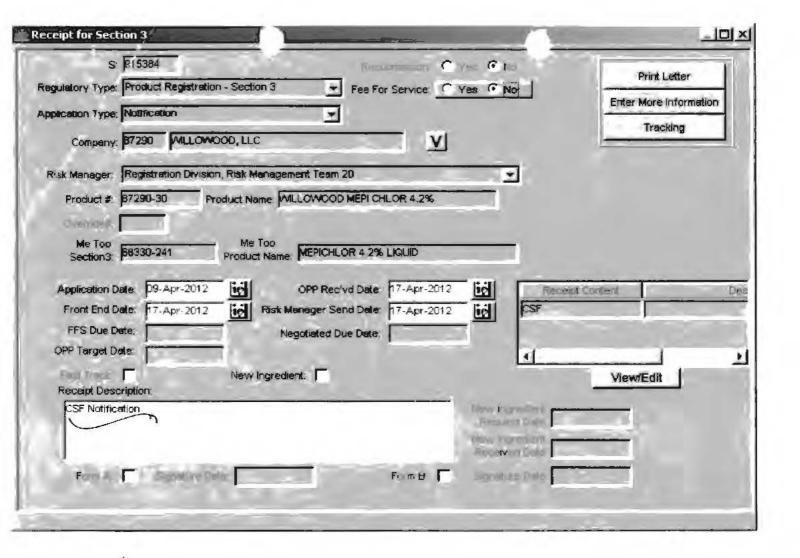
Sincerely.

Marcel Howard

Acting Product Manager 20

Fungicide Branch

Registration Division (7504P)



April 9, 2012

Document Processing Desk (NOTIF)
ATTN: Shaja Joyner, PM 20
Registration Division (7504P)
U.S. Environmental Protection Agency
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, Virginia 22202-4501

Dear Ms. Joyner:

Subject:

Willowood Mepi Chlor 4.2%, EPA Registration Number 87290-30 Resubmission of Notification of Alternate Confidential Statement of Formula (CSU) per PR Notice 98-10 § 111.A in response to Agency letter dated April 5, 2012 FPA Decision No. 461708

Wagner Regulatory Associates, Inc., as agent for Willowood LLC, resubmits the enclosed alternate CSFs for the above-referenced product in response to the Agency letter dated April 5, 2012. Enclosed are Alternate 2 CSF and Alternate 3 CSF. The addresses in Boxes 1 and 2 have been corrected as instructed in the Agency letter dated April 5, 2012. As noted in the original submission, an additional registered source of active ingredient and an additional producer were added to these CSFs. No other changes have been made to these CSFs.

In support of this request, the following documents are attached.

- · Letter from Willowood LLC appointing Wagner Regulatory Associates, Inc. as their agent
- Application for Pesticide Notification (8570-1)
- Formulators Exemption (8570-27)
- Confidential Statement of Formula (8570-4) with Attachment, 2 copies

If you have any questions about this submission please contact the undersigned at (302) 635-7281 or Lorid; wagnerreg.com.

Respectfully submitted,

Lori Kohler

Agent for Willowood LLC

Enclosures







Your preferred manufacturer of post patent products

August 31, 2010

To: Whom it May Concern

Re Designation of Agent for Willowood USA, LLC 1600 NW Garden Valley Blvd. Suite 130 Roseburg, OR 97471

Dear Sir or Madam

This letter serves as notification that Willowood USA, LLC has appointed Wagner Regulatory Associates, Inc. (WRA, Inc.) to serve as the Agent on our company's behalf regarding all state and federal regulatory matters relative to products that Willowood USA, LLC will register with US EPA and the states. Please forward all correspondence for our company and its products to:

Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707-0640

Thank you for your time and assistance. Please feel free to call me at if you have any questions.

Respectfully submitted,

Brian Heinze President|CEO

cc: WRA, Inc.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

APR 0 5 2012

Applicant

Willowood LLC

1600 NW Garden Valley Blvd.

Suite 130

Roseburg, OR 97471

Mailed To Agent

Lori Kohler

Wagner Regulatory Associates, Inc.

P.O. Box 640

Hockessin, DE 19707

Subject:

Willowood Mepi Chlor 4.2%

EPA Reg. No. 87290-30 Notification dated 2/14/12 EPA Decision No. 461708

Dear Ms. Kohler

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The alternate confidential statement of formula (CSF) dated 2/14/12 is not acceptable. P.O. Box addresses are not acceptable for inclusion in box 2 on the CSF form or the CSF attachment. In addition, the applicant's address must be provided in box 1. Please resubmit your alternate CSF request including the physical address for each producer location and the correct applicant address. Note that the applicant's address must also be provided on administrative documents for future submissions.

If you have any questions, please contact Shaunta Hill at 703-3437-8961 or by email at hill.shaunta@epa.gov.

Sincerely,

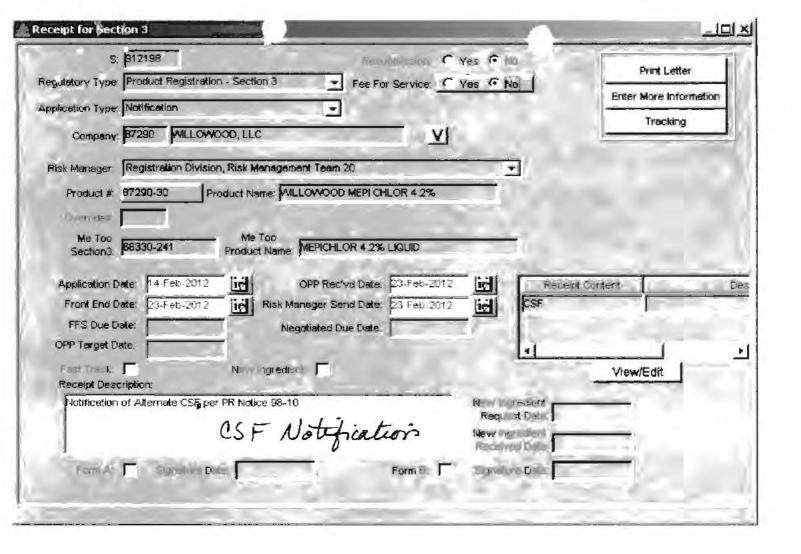
Cynthia Giles-Parker

Acting Product Manager 20

Cd gales glash

Fungicide Branch

Registration Division (7504P)





Wagner Regulatory Associates, Inc. P.O. Box 640 7217 Lancaster Pike, Suite A Hockessin, Delaware 19707

February 14, 2012

Document Processing Desk (NOTIF)
ATTN: Shaja Joyner, PM 20
Registration Division (7504P)
U.S. Environmental Protection Agency
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, Virginia 22202-4501

Dear Ms. Joyner;

Subject:

Willowood Mepi Chlor 4.2%, EPA Registration Number 87290-30

Notification of Alternate Confidential Statement of Formula (CSF)

per PR Notice 98-10 § III.A.

Wagner Regulatory Associates, Inc., as agent for Willowood LLC, respectfully submits an alternate CSF for the above-referenced product in accordance with PR Notice 98-10. An additional registered source of active ingredient has been added and an additional formulator. No other changes have been made to this CSF.

In support of this request, the following documents are attached:

- Letter from Willowood LLC appointing Wagner Regulatory Associates, Inc. as their agent
- Application for Pesticide Notification (8570-1)
- Formulators Exemption (8570-27)
- Confidential Statement of Formula (8570-4) with Attachment

If you have any questions about this submission please contact the undersigned at (302) 635-7281 or Lori@wagnerreg.com.

Respectfully submitted,

Lori Kohler

Agent for Willowood LLC

Enclosures

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Notification – Notification of a Explanation: Use additional This notification is conhave been made to the Sec. 1001 to willfully in	Iternate CSF per PR Notice tional page(s) if necessary sistent with the provisions of a labeling or the confidential pake any false statement to FR 152.46, this product make any false statement to the confidence of the confidenc	e 98-10. (For Section of PR Notice sal statement of EPA. I further	98-10 ar of formul er under	Agency "Me Too Other - Gection II.) and EPA reg a of this prostand that i	letter date of Applicat Explain be ulations oduct. I uf this not	at 40 CFR 15 nderstand that	2.46, and	violation of 1 ant with the	8 U.S.C. terms of PR
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United States Environmental Protection Agency Washington, DC 20460

Formulator's Exemption Statement

(40 CFR 152.85)

Applicant's Name and Address

Willowood LLC

c/o Wagner Regulatory Associates, Inc.

P.O. Box 640

Hockessin, DE 19707

EPA File Symbol/Registration Number

87290-30

Product Name

Willowood Mepi Chlor 4.2%

Date of Confidential Statement of Formula (EPA Form 8570-4)

02/14/2012

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Mepiquat chloride

- (2) Of these, each active Ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).
- (3) Indicate by checking (A) or (B) below which paragraph applies:
- (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

- (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.
- (4) The following active ingredients in this product qualify for the formulator's exemption.

	Source	
Active Ingredient	Product Name	Registration Number
Mepiquat chloride		
Signature Lay Libbs	Name and Title Lori Kohler, Agent	Date 02/14/2012

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 – EPA Copy 2 - Applicant copy







WILLOWOOD USA Your preferred manufacturer of post patent products

August 31, 2010

To: Whom it May Concern

Re: Designation of Agent for:
Willowood USA, LLC
1600 NW Garden Valley Blvd.
Suite 130
Roseburg, OR 97471

Dear Sir or Madam

This letter serves as notification that Willowood USA, LLC has appointed Wagner Regulatory Associates, Inc. (WRA, Inc.) to serve as the Agent on our company's behalf regarding all state and federal regulatory matters relative to products that Willowood USA, LLC will register with US EPA and the states. Please forward all correspondence for our company and its products to:

Wagner Regulatory Associates, Inc P O Box 640 Hockessin, DE 19707-0640

Thank you for your time and assistance. Please feel free to call me at if you have any questions.

Respectfully submitted,

Brian Heinze PresidentICEO

cc: WRA, Inc.



Wagner Regulatory Associates, Inc. P.O. Box 640 7217 Lancaster Pike, Suite A Hockessin, Delaward 19707

February 27, 2012

Document Processing Desk Ms. Shaja Joyner, PM 20 Registration Division (7504P) U.S. Environmental Protection Agency Office of Pesticide Programs 1200 Pennsylvania Avenue NW Washington, D.C. 20460

Dear Ms. Joyner,

Subject: Final Printed Label

Willowood Mepi Chlor 4.2% (EPA Registration Number: 87290-30)

Wagner Regulatory Associates, Inc., on behalf of Willowood LLC, respectfully submits the enclosed final printed label for the subject product as required in the EPA Notice of Pesticide Registration dated February 2, 2012. No changes were made to this label, Also enclosed is an Agent letter and EPA Application form (8570-1).

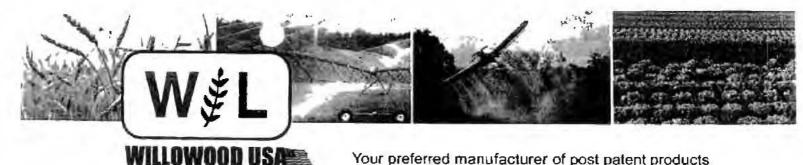
Please feel free to contact me via email at lori@wagnerreg.com or telephone at (302) 635-7281 if you have any questions or require additional information.

Respectfully submitted,

Lori Kohler

Agent for Willowood, LLC

Enclosures



Your preferred manufacturer of post patent products

August 31, 2010

To. Whom it May Concern

Re: Designation of Agent for: Willowood USA, LLC 1600 NW Garden Valley Blvd. Suite 130 Roseburg, OR 97471

Dear Sir or Madam:

This letter serves as notification that Willowood USA, LLC has appointed Wagner Regulatory Associates, Inc. (WRA, Inc.) to serve as the Agent on our company's behalf regarding all state and federal regulatory matters relative to products that Willowood USA, LLC will register with US EPA and the states. Please forward all correspondence for our company and its products to:

Wagner Regulatory Associates, Inc. P.O Box 640 Hockessin, DE 19707-0640

Thank you for your time and assistance. Please feel free to call me at if you have any questions.

Respectfully submitted,

Brian Heinze President/CEO

cc: WRA, Inc.

Please read instructions on revers	se before comple in form).	For	m Appro	OVE MB No.	2070-006	0. Approval expires 05-31-98
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87290-30			Shaja Joyner				
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Willowood, LLC c/o Wagner Regulatory As	conintos Inn		to:				
P.O. Box 640	sociales, inc.		EPA Reg. No.				
Hockessin, DE 19707			Product Name:				
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		Se	ction - III				
1. Material This Product Wil	l Be Packaged In:						
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* Certification must	Unit Packaging wgt.	container	Package wgt co	ntainer		Paper	
be submitted		- 1				Other (Specify) HDPE lined bags
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6. Manner in Which Label is Affixed to Product Lithograph Other							
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	***************************************	Se	ction - IV				
1. Contact Point (Complete ite	ems directly below for	identification	n of individual to be	contact	ed, if necessa	ry, to pr	ocess this application.)
Name	Title				Telepho	ne No.	(Include Area Code)
Lori Kohler Agent for Willowood, LLC (302) 635-7281					-		
	Certific						e Application
I certify that the statements I have I acknowledge that any knowing!	e made on this form and y false or misleading stat	all attachmer tement may be	nts thereto are true, acc e punishable by fine or	curate a impriso	na complete.	Rec	ceived
both under applicable law.							(Stamped)
2. Signature		3. Title					
×- nikhler		Agent for Willowood, LLC					
4. Typed Name		5. Date					
Lori Kohler	February 27, 2012						

WED Willowood MEPI CHLOR 4.2%

ACTIVE INGREDIENT:

*Mepiqua	at Chloride: N,N-dimethylpiperidinium chloride	4.2%
OTHER I	NGREDIENTS:	<u>95.8%</u>
TOTAL:		100.0%

^{*}Contains 0.35 pounds active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION-PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See Additional Precautionary Statements inside Booklet

EPA Reg. No. 87290-30

EPA Est. No. 82486-MC-001

Manufactured For: Willowood, LLC 1600 NW Garden Valley Bivd. #120

Roseburg, OR 97471

NET CONTENTS: 2.5 Gallons

NOT REVIEWED In Accordance with PR Notice 82-2 Based on Draft Labeling Dated

2/2/12

	FIRST AID
If in eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed:	 Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice

NOTE TO PHYSICIAN: No known antidote, treat symptomatically.

EMERGENCY CONTACT: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Emergency Information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378, Mon. to Fri. 7:30 am to 3:30 pm Pacific Time, or your poison control center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin and clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart.

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate.
- 3. Shoes plus socks

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- . Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as
 possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal area below the high water mark. Do not contaminate water when disposing of rinsate or equipment washwater. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- 2. Chemical resistant gloves made of any waterproof material
- 3. Shoes plus socks

PRODUCT INFORMATION

Willowood Mepi Chlor 4.2% is a foliar applied plant regulator. It allows the grower to manage the cotton plant for short-season production leading to reduced risk of yield and quality loss due to delayed and prolonged harvest. Benefits derived from the use of Willowood Mepi Chlor 4.2% include increased early boll retention and/or larger bolls, reduced plant height which provides a none open canopy, less boll rot, improved defoliation, less trash and lower ginning costs, better harvest efficiency and a darker leaf notor. These benefits can provide for earlier maturity and often result in improved yields.

Early Application of Willowood Mepi Chlor 4.2%

Growers may use low-rate multiple applications, or higher, less frequent applications which provide maximum flexibility under a wide range of growing conditions. Willowood Mepi Chlor 4.2% should not be applied to plants under stress. If stress is alleviated, plants should be evaluated for vegetative growth before additional applications are made. Willowood Mepi Chlor 4.2% may be task mixed with insecticides/miticides when application timing coincides. (See RESTRICTIONS AND LIMITATIONS)

Fields should be carefully scouted. Willowood Mepi Chlor 4.2% should not be applied if plants are under any form of stress. In the absence of stress, a maximum of five low rate applications can be made each season. The first application can be applied at the matchhead square stage. The rate and timing of subsequent applications depend on growing conditions and desired benefits. Under good growing conditions, additional treatments of 2-4 fl. oz. per acre can be made at 7-14 day intervals. Higher rates of Willowood Mepi Chlor 4.2%, 4 - 12 fl. oz./A (1/4 - 3/4 pt/A), should be used if vegetative growth becomes excessive or a greater degree of height control is desired. Do not use more than a total of 48 fl. oz. (3 pts) of Willowood Mepi Chlor 4.2% per acre in a growing season.

If significant loss of squares and/or young bolls has occurred earlier due to insect pressure or other stresses, but now these stresses have been alleviated, the need for Willowood Mepi Chlor 4.2% is increased - excess vegetative growth is likely because of poor boll load.

Late Season Application of Willowood Mepi Chlor 4.2%

Late application of Willowood Mepi Chlor 4.2% (approximately during the fourth to sixth week of blooming) can provide certain benefits to cotton. However, it should not and does not substitute for early season use, the time of the greatest benefit from the use of Willowood Mepi Chlor 4.2%. Late season application can lead to one or more of the following: reduction in late season vegetative growth or regrowth after cutout or defoliation, more complete and manageable cutout, better defoliation, earlier maturity and reduction in trash and lower ginning costs. Some of these effects may favorably influence the yield potential and fiber quality. A late season application of Willowood Mepi Chlor 4.2% should be applied only if fields are not drought or nutrient stressed; that is, those fields likely to experience additional vegetative growth or regrowth. However, fields that are very rank and extremely vigorous due to a combination of poor boll load and excellent growing conditions may not respond as much as desired to late season applications at the specified rates.

Timing for Late Season Applications

- A. On fields where cotton cuts out and then starts regrowth: apply when regrowth begins, as evidenced by new leaves in the terminal and stem elongation. This would often, but not always, be in the period of 5-6 weeks after the first bloom.
- B. On fields where cotton never completely cuts out, apply Willowood Mepi Chlor 4.2% when there are 4-6 nodes above the white flower (NAWF). Measure NAWF by counting the number of mainstem nodes from the first position white bloom (the one closest to the mainstem) to the terminal. Count the node with the first position white bloom as zero and the last node in the terminal which is counted should have a leaf at least the size of a quarter. Generally, the NAWF first reaches 4-6 during the fourth to sixth week of bloom. During this time period, the NAWF should be decreasing about one node every 5-6 days if its rate of decrease is less, this means that the plant is not cutting out soon enough (the crop is too vigorous). If the fifth week of bloom arrives and NAWF is still above 5-6, apply Willowood Mepi Chlor 4.2%.

Use Rate for Late Season Application

Willowood Mepi Chlor 4.2% should be applied at a rate between 8 - 24 fl. oz. (½ pint to 1 ½ pints) per acre. Use the lower rate range on cotton with only moderate additional growth potential, and the higher rate range on fields likely to continue vigorous growth. Total seasonal use per season (early plus late application) must not exceed 48 fl. oz./A (3 pt/A).

SPRAY VOLUMES

For spray application, thorough coverage of cotton foliage is required.

IN WATER:

Areas other than California: Ground Application - Use a minimum of 2 gal/A. Aerial Application - Use a minimum of 2 gal/A.

California Only:

Ground Application - Use a minimum of 5 gal/A. Aerial Application - Use a minimum of 5 gal/A.

IN OIL:

Use a minimum total oil volume of 2 pt/A for ultra low volume (ULV) aerial application. Application in oil is permitted only in AL, AR, FL, GA, LA, MO, MS, NC, OK, SC, TN and TX. Use a nonphytotoxic oil concentrate which contains either a petroleum or vegetable oil base, contains only EPA-exempt ingredients, provides good mixing quality in the jar test (see "Compatibility" section), and has been used successfully in your locality. The oil diluent should contain emulsifiers which provide good mixing quality. If the oil does not contain an emulsifier, one must be added during mixing at a volume equal to 3% of the final volume of the mixing tank. Do not apply Willowood Mepi Chlor 4.2% as ULV without using emulsifiers. If using a vegetable oil based product, only highly refined concentrates should be used.

Mix under constant agitation. Pour one-half of the required volume of oil into the spray tank, followed by the emulsifier (if the oil does not already contain one) at approximately 3% of the final spray tank volume, and then pour in the Willowood Mepi Chlor 4.2% while the remainder of the oil is added. Constant, moderate agitation is required during and after mixing and during application.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weatherrelated factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outer most nozzles on the boom must not exceed % the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

The applicator should be familiar with and take into account the information covered in the <u>Aerial Drift Reduction Advisory</u> <u>Information</u>.

INFORMATION ON DROPLET SIZE: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure
 produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, nurrower spray
 angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the
 largest droplets and the lowest drift.

BOOM LENGTH: For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND: Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

RAIN WASH-OFF PRECAUTION

The use of a high quality, EPA exempt surfactant will enhance the uptake of Willowood Mepi Chlor 4.2% into the plant. Therefore, the use of a surfactant allows applications made as little as 4 hours prior to rainfall to be effective. Without a surfactant, the product should be used at least 8 hours prior to expected rainfall.

COMPATIBILITY

Willowood Mepi Chlor 4.2% is water based, and is compatible with most insecticides and miticides. If compatibility is in doubt, perform a jar test to check for compatibility. Willowood Mepi Chlor 4.2% can be used with foliar fertilizers if your prior experience shows the combination is compatible and will not injure cotton under your conditions. Caution should be used when applying with foliar fertilizers under conditions of extreme heat.

RESTRICTIONS AND LIMITATIONS

- Insect or mite damage to Willowood Mepi Chlor 4.2% treated crops can lead to yield decreases or other undesirable effects.
- Do not apply Willowood Mepi Chlor 4.2% to cotton that is under stress. If using low rate multiple applications, discontinue
 use until your crop has overcome any stress.
- Do not apply more than 48 fl. oz. (3 pts) of Willowood Mepi Chlor 4.2% per acre per season. The sum of all products and formulations containing mepiquat chloride must not exceed 0.132 pounds (60 grams) of mepiquat chloride per acre per season.
- Do not apply Willowood Mepi Chlor 4.2% within 30 days of harvest.
- · Do not graze or feed cotton forage to livestock.
- · Willowood Mepi Chlor 4.2% contains a dye and effectiveness is not related to the color of the spray solution.
- Do not tank mix with other products other than those mentioned under "COMPATIBILITY".
- · Do not plant another crop within 75 days after last treatment.
- Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

TIME AND RATE OF APPLICATION SHORT-STAPLE AND LONG-STAPLE (PIMA) COTTON

Directions for use should be observed as specified below:

I. HIGH RATE SINGLE, LESS FREQUENT APPLICATIONS:
Use these instructions when you are not able to start growth regulation treatments early, or when you want to make the fewest number of applications.

AREA	TIME OF APPLICATION	RATE PER ACRE
- 22	First Application	8 to 16 fl. oz.
AL, AR, AZ, CA, FL, GA, LA, MO, MS, NM, NC, SC, TN, VA	Apply when cotton is actively growing and is between 20 and 30" tall, but not more than 7 days beyond early bloom (5-6 blooms per 25 row feet). Also apply if cotton is 24" tall and has no blooms.	
	Second Application	8 to 16 fl. oz.
	Make another application in 2 to 3 weeks if additional growth control is desired.	
	Third Application for control of excessive Vegetative Growth	8 to 16 fl. oz.
	If the cotton field has a history of vigorous growth, apply a third application 1 to 2 weeks after the second application.	
	Late Season Application	8 to 24 fl. oz.
	See section titled "Late Season Application of Willowood Mepi Chlor 4.2%".	
OK, TX (except Rio Grande	First Application	8 fl. oz.
Valley) Areas without a history of excessive vegetative growth	Apply when cotton is in the early bloom stage (5-6 blooms per 25 row feet) and actively growing. Also apply if no blooms are present and the cotton is 20" tall and actively growing.	
	See RESTRICTIONS AND LIMITATIONS	
	Second Application	8 fl. oz.
	Make a second application in 2 to 3 weeks if additional growth control is desired.	
	Third Application	8 fl. oz.
	If conditions after the second application of Willowood Mepi Chlor 4.2% continue to favor vigorous growth, apply a third application 1 to 2 weeks after the second application.	
	Late Season Application	8 to 24 fl. oz.
	See section titled "Late Season Application of Willowood Mepi Chlor 4.2%".	

AREA	TIME OF APPLICATION	RATE PER ACRE
ок, тх	First Application	16 fl. oz.
Areas with a history of excessive vegetative growth	For best results, apply when plants are in early bloom stage (5-6 blooms per 25 row feet) and an average of 24" tall. Treatments can also be made when cotton height averages a minimum of 20" and a maximum of 30" provided cotton is not more than 7 days beyond early bloom. If cotton is 24" tall and has no blooms, apply Willowood Mepi Chlor 4.2%. See RESTRICTIONS AND LIMITATIONS	
	Second Application	8 to 16 fl. oz.
	For fields with a history of excessive growth, or if conditions after the first application favor excessive growth, make a second application in 2 to 3 weeks.	
	Third Application	8 to 16 fl. oz.
	If conditions after the second application of Willowood Mepi Chlor 4.2% continue to favor vigorous growth, apply a third application 1 to 2 weeks after the second application.	
	Late Season Application:	8 to 24 fl. oz.
	See section titled "Late Season Application of Willowood Mepi Chlor 4.2%".	

Material Sent for Data Extraction

Reg. # _ 37290 - 30
Description: Registration
Material(s) Sent to Data Extraction Contractors:
New Stamped Label Dated 2/2/12
Notification Dated
New CSF(s) Dated AH #1 = 112012
Other:
☐ Decision #:
☐ Other Action/Comments:
File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.
Reviewer: _ 3.HII
Phone: 347-894 Division: RD
Date: atalia

NEW APPLICATIONS

DATE: 10/13/11
FILE NUMBER: 87290-GN
FEP (OPPIN ENTRY) pem 10/13/11 (Initial & date)
FILE ROOM: (Initial & date)
SIG: (Initial & date)
FILE ROOM: (Initial & date)
X ASSIGN TO PM 20 (NO DATA)
JACKET TO SHELF (DATA)

FEB 0 2 2012



UNIT ... STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

November 3, 2011

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OPP Decision Number: D-456355

EPA File Symbol or Registration Number: 87290-GN Product Name: WILLOWOOD MEPI CHLOR 4.2%

EPA Application Receipt Date: 13-Oct-2011 EPA Waiver Request Receipt Date: 13-Oct-2011

EPA Company Number: 87290

Company Name: WILLOWOOD, LLC

LORI KOHLER
WAGNER REGULATORY ASSOCIATES, INC.
WILLOWOOD, LLC
P.O. BOX 640
HOCKESSIN, DE 19707

SUBJECT: Approval of 50% Small Business Waiver Request

Dear Registrant:

The Office of Pesticide Programs has approved your request for 50% waiver of the pesticide registration fee associated with the action referenced above. The decision review period for this action will begin on the date of this letter.

The Action has been identified as Action Code: R300

NEW PRODUCT; ME-TOO PRODUCT FAST TRACK;

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman, at (703) 308-9362.

Sincerely,

Oscar Morales, Director

Information Technology & Resources Management Division

Office of Pesticide Programs

Million to



U.S. Environmental Protection

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

EPA Reg. Number: Date of Issuance:

87290-30

FEB 0 2 2012

Term of Issuance: Unconditional

Name of Pesticide Product: Willowood Mepi Chlor 4.2%

NOTICE OF PESTICIDE: X Registration

X Registration
__Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Willowood, LLC

c/o Wagner Regulatory Associates, Inc.

P.O. Box 640

Hockessin, DE 19707

Mailed to: Lori Kohler Agent for Willowood

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

 Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

Page 1 of 3

Signature of Approving Official:

Date:

FEB 0 2 2012

Shaja B. Joyner, Product Manager (20)

hazir/nymer

EPA Form 8579-6

Notice of Pesticide Registration Willowood Mepi Chlor 4.2% EPA Reg. No. 87290-30 Page 2 of 3

On page 1,

2. Change the product registration number to 87290-30.

On page 2,

- 3. The heading "User Safety Requirements" prior to the paragraph starting "Follow manufacturer's instructions".
- 4. Within the Use Safety Recommendations box, replace "Remove clothing immediately" with "Remove clothing/PPE immediately".

On page 3,

- 5. Within the Agricultural Use Requirements box:
 - a. Replace the common with a period following "40 CFR part 170" in the first sentence.
 - b. Replace the common with a period following "handlers of agricultural pesticides" in the second sentence.
 - c. Replace "ft" with "It" at the beginning of the third sentence.
 - d. Replace "statement" with "statements" in the sentence starting "It also contains specific instructions".
- 6. Within the Early Application of Willowood Mepi Chlor 4.2% section:
 - a. Replace "dosages" with "applications" in the first sentence of the first paragraph.
 - b. In the sentence starting "Higher rate of", add "4-12 fl. oz/A" prior to $(\frac{1}{4} \frac{3}{4})$ pt/A).
 - c. In the final sentence of the final paragraph, add "(3 pts)" following "48 fl. oz".

On page 4,

- 7. Within the first paragraph starting "If significant loss", in the final sentence, replace "fruit" with "boll".
- 8. Within the Late Season Application of Willowood Mepi Chlor 4.2% section; in the final sentence replace "suggested" with "specified".
- 9. Within the Use Rate for Late Season Application section,
 - a. In the first sentence add "8-24 fl. oz" prior to "½ pt to 1½ pts per acre"; then place "½ pt to 1½ pts" in parenthesis.
 - b. In the final sentence, add "48 fl. oz/A" prior to "3pt/A"; then place "3 pt/A" in parenthesis.
- 10. Revised the sentence immediately following the heading "Spray Volumes" to read as follows: "For spray application, thorough coverage of cotton foliage is required".

On page 5,

11. Following the heading "Aerial Drift Reduction Advisory Information", add the following sentence: "The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information". Notice of Pesticide Registration Willowood Mepi Chlor 4.2% EPA Reg. No. 87290-30 Page 3 of 3

On page 7

- 12. Within the Restrictions and Limitations section
 - a. In the third bullet, add "(3 pts)" following 48 fl. oz.
 - b. Add the statement "Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures".
- 13. Within the Time and Rate of Application section, replace the heading "High rate single or multiple applications" with "High rate single, less frequent applications".

On page 11,

14. Within the Storage and Disposal box, replace the heading "Container Disposal" with "Container Handling".

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. Submit one copy of the revised final printed label for the record before the product is released for shipment. Ensure that the final printed label uses a font size of at least 12 point.

The Basic (dated 1/11/12) and the Alternate CSF (dated 1/26/12) are acceptable and will be added to the regulatory file. A copy of the label stamped "Accepted with Comments" is enclosed for your records. If you have any questions, please contact Shaunta Hill at 703-347-8961 or hill.shaunta@epa.gov or myself at 703-308-3194 or joyner.shaja@epa.gov.

Sincerely,

Shaja B. Joyner Product Manager (20)

Fungicide Branch

Registration Division (7505P)

Enclosure:

Label stamped "Accepted with Comments" Product Chemistry review Acute Toxicity review

Willowood Mepi Chlor 4.2%

CAUTION - PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

***	FIRST AID
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	 Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice
NOTE TO PHYSIC	IAN: No known antidote, treat symptomatically.

EMERGENCY CONTACT: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222. For chemical emergency assistance (spill, leak, fire, or accident) call CHEMTREC at 1-800-424-9300.

See Additional Precautionary Statements inside Booklet

EPA Reg. No. 87290-

EPA Est. No.

Net contents:

Manufactured For:

Willowood USA, LLC 1600 NW Garden Valley Blvd. Suite 120 Roseburg, OR 97471

ACCEPTED with COMMENTS In EPA Letter Dated FEB 0 2 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

Page 1 of 12

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin and clothing.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart. Applicators and other handlers must wear:

- 1.Long-sleeved shirt and long pants
- 2. Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate.
- 3. Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal area below the high water mark. Do not contaminate water when disposing of rinsate or equipment washwater. Do not contaminate water by cleaning of equipment of disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170, This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides, ft contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statement on this label about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- 1. Coveralls
- 2. Chemical resistant gloves made of any waterproof material
- 3. Shoes plus socks

PRODUCT INFORMATION

Willowood Mepi Chlor 4.2% is a foliar applied plant regulator. It allows the grower to manage the cotton plant for short-season production leading to reduced risk of yield and quality loss due to delayed and prolonged harvest. Benefits derived from the use of Willowood Mepi Chlor 4.2% include increased early boll retention and/or larger bolls, reduced plant height which provides a more open canopy, less boll rot, improved defoliation, less trash and lower ginning costs, better harvest efficiency and a darker leaf color. These benefits can provide for earlier maturity and often result in improved yields.

Early Application of Willowood Mepi Chlor 4.2%

Growers may use low-rate multiple applications, or higher, less frequent dosages which provide maximum flexibility under a wide range of growing conditions. Willowood Mepi Chlor 4.2% should not be applied to plants under stress. If stress is alleviated, plants should be evaluated for vegetative growth before additional applications are made. Willowood Mepi Chlor 4.2% may be tank mixed with insecticides/miticides when application timing coincides. (See RESTRICTIONS AND LIMITATIONS)

Fields should be carefully scouted. Willowood Mepi Chlor 4.2% should not be applied if plants are under any form of stress. In the absence of stress, a maximum of five low rate applications can be made each season. The first application can be applied at the matchhead square stage. The rate and timing of subsequent applications depend on growing conditions and desired benefits. Under good growing conditions, additional treatments of 2-4 fluid ounces per acre can be made at 7-14 day intervals. Higher rates of Willowood Mepi Chlor 4.2% (1/4 - 3/4 pt/A) should be used if vegetative growth becomes excessive or a greater degree of height control is desired. Do not use more than a total of 48 fl oz of Willowood Mepi Chlor 4.2% per acre in a growing season.

If significant loss of squares and/or young bolls has occurred earlier due to insect pressure or other stresses, but now these stresses have been alleviated, the need for Willowood Mepi Chlor 4.2% is increased - excess vegetative growth is likely because of poor fruit load.

Late Season Application of Willowood Mepi Chlor 4.2%

Late application of Willowood Mepi Chlor 4.2% (approximately during the fourth to sixth week of blooming) can provide certain benefits to cotton. However, it should not and does not substitute for early season use, the time of the greatest benefit from the use of Willowood Mepi Chlor 4.2%. Late season application can lead to one or more of the following: reduction in late season vegetative growth or regrowth after cutout or defoliation, more complete and manageable cutout, better defoliation, earlier maturity and reduction in trash and lower ginning costs. Some of these effects may favorably influence the yield potential and fiber quality. A late season application of Willowood Mepi Chlor 4.2% should be applied only if fields are not drought or nutrient stressed; that is, those fields likely to experience additional vegetative growth or regrowth. However, fields that are very rank and extremely vigorous due to a combination of poor boll load and excellent growing conditions may not respond as much as desired to late season applications at the suggested rates.

Timing for Late Season Applications

- A. On fields where cotton cuts out and then starts regrowth: apply when regrowth begins, as evidenced by new leaves in the terminal and stem elongation. This would often, but not always, be in the period of 5-6 weeks after the first bloom.
- B. On fields where cotton never completely cuts out, apply Willowood Mepi Chlor 4.2% when there are 4-6 nodes above the white flower (NAWF). Measure NAWF by counting the number of mainstem nodes from the first position white bloom (the one closest to the mainstem) to the terminal. Count the node with the first position white bloom as zero and the last node in the terminal, which is counted, should have a leaf at least the size of a quarter. Generally, the NAWF first reaches 4-6 during the fourth to sixth week of bloom. During this time period, the NAWF should be decreasing about one node every 5-6 days if its rate of decrease is less, this means that the plant is not cutting out soon enough (the crop is too vigorous). If the fifth week of bloom arrives and NAWF is still above 5-6, apply Willowood Mepi Chlor 4.2%.

Use Rate for Late Season Application

Willowood Mepi Chlor 4.2% should be applied at a rate between ½ pint to 1½ pints per acre. Use the lower rate range on cotton with only moderate additional growth potential, and the higher rate range on fields likely to continue vigorous growth. Total seasonal use per season (early plus late application) must not exceed 3 pt/A.

SPRAY VOLUMES

Thorough coverage is required

IN WATER:

Areas other than California:
Ground Application - Use a minimum of 2 gal/A.
Aerial Application - Use a minimum of 2 gal/A.

California Only:
Ground Application - Use a minimum of 5 gal/A.
Aerial Application - Use a minimum of 5 gal/A.

IN OIL:

Use a minimum total oil volume of 2 pt/A for ultra low volume (ULV) aerial application. Application in oil is permitted only in AL, AR, FL, GA, LA, MO, MS, NC, OK, SC, TN and TX. Use a nonphytotoxic oil concentrate which contains either a petroleum or vegetable oil base, contains only EPA-exempt ingredients, provides good mixing quality in the jar test (see "Compatibility" section), and has been used successfully in your locality. The oil diluent should contain emulsifiers which provide good mixing quality. If the oil does not contain an emulsifier, one must be added during mixing at a volume equal to 3% of the final volume of the mixing tank. Do not apply Willowood Mepi Chlor 4.2% as ULV without using emulsifiers. If using a vegetable oil based product, only highly refined concentrates should be used.

Mix under constant agitation. Pour one-half of the required volume of oil into the spray tank, followed by the emulsifier (if the oil does not. already contain one) at approximately 3% of the final spray tank volume, and then pour in the Willowood Mepi Chlor 4.2% while the remainder of the oil is added. Constant, moderate agitation is required during and after mixing and during application.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

INFORMATION ON DROPLET SIZE: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle
 types lower pressure produces larger droplets. When higher flow rates are needed, use higher
 flow rate nozzles instead of increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream
 produces larger droplets than other orientations and is the recommended practice. Significant
 deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle
 types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid
 stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH: For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND: Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fcg is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under

low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

RAIN WASH-OFF PRECAUTION

The use of a high quality, EPA exempt surfactant will enhance the uptake of Willowood Mepi Chlor 4.2% into the plant. Therefore, the use of a surfactant allows applications made as little as 4 hours prior to rainfall to be effective. Without a surfactant, the product should be used at least 8 hours prior to expected rainfall.

COMPATIBILITY

Willowood Mepi Chlor 4.2% is water based, and is compatible with most insecticides and miticides. If compatibility is in doubt, perform a jar test to check for compatibility. Willowood Mepi Chlor 4.2% can be used with foliar fertilizers if your prior experience shows the combination is compatible and will not injure cotton under your conditions. Caution should be used when applying with foliar fertilizers under conditions of extreme heat.

RESTRICTIONS AND LIMITATIONS

- Insect or mite damage to Willowood Mepi Chlor 4.2% treated crops can lead to yield decreases or other undesirable effects.
- Do not apply Willowood Mepi Chlor 4.2% to cotton that is under stress. If using low rate multiple applications, discontinue use until your crop has overcome any stress.
- Do not apply more than 48 fl oz of Willowood Mepi Chlor 4.2% per acre per season. The sum of all products and formulations containing mepiquat chloride must not exceed 0.132 pounds (60 grams) of mepiquat chloride per acre per season.
- Do not apply Willowood Mepi Chlor 4.2% within 30 days of harvest.
- Do not graze or feed cotton forage to livestock.
- Willowood Mepi Chlor 4.2% contains a dye and effectiveness is not related to the color of the spray solution.
- Do not tank mix with other products other than those mentioned under "COMPATIBILITY".
- Do not plant another crop within 75 days after last treatment.

TIME AND RATE OF APPLICATION SHORT-STAPLE AND LONG-STAPLE (PIMA) COTTON

Directions for use should be observed as specified below:

I. HIGH RATE SINGLE OR MULTIPLE APPLICATIONS:

Use these instructions when you are not able to start growth regulation treatments early, or when you want to make the fewest number of applications.

AREA	TIME OF APPLICATION	RATE PER ACRE	
	First Application	8 to 16 fl oz	
AL, AR, AZ, CA, FL, GA, LA, MO, MS, NM, NC, SC, TN, VA	Apply when cotton is actively growing and is between 20 and 30" tall, but not more that 7 days beyond early bloom (5-6 blooms per 25 row feet). Also apply if cotton is 24" tall		
	and has no blooms.	9 55 46 51 55	
	Second Application Make another application in 2 to 3 weeks if additional growth control is desired.	8 to 16 fl oz	
soi.	Third Application for control of excessive Vegetative Growth	8 to 16 fl oz	
	If the cotton field has a history of vigorous growth apply a third application 1 to 2 weeks after the second application.		
	Late Season Application	8 to 24 fl oz	
	See section titled "Late Season Application of Willowood Mepi Chlor 4.2%".		
OK, TX (except Rio Grande	First Application	8 fl oz	
Valley) Areas without a history of excessive vegetative growth	Apply when cotton is in the early bloom stage (5-6 blooms per 25 row feet) and actively growing. Also apply if no blooms are present and the cotton is 20" tall and actively growing. See RESTRICTIONS AND LIMITATIONS		
	Second Application	8 fl oz	
	Make a second application in 2 to 3 weeks if additional growth control is desired.		
	Third Application	8 fl oz	
	If conditions after the second application of Willowood Mepi Chlor 4.2% continue to favor vigorous growth, apply a third application 1 to 2 weeks after the second application.		

AREA	TIME OF APPLICATION	RATE PER ACRE	
	Late Season Application	8 to 24 fl oz	
	See section titled "Late		
	Season Application of		
	Willowood Mepi Chlor 4.2%".		
OK, TX	First Application	16 fl oz	
Areas with a history of	For best results, apply when		
excessive vegetative growth	plants are in early bloom stage		
	(5-6 blooms per 25 row feet)		
	and an average of 24" tall.		
	Treatments can also be made		
	when cotton height averages a		
	minimum of 20" and a		
	maximum of 30" provided		
	cotton is not more than 7 days		
No.	beyond early bloom. If cotton		
	is 24" tall and has no blooms,		
	apply Willowood Mepi Chlor		
	4.2%.		
	See RESTRICTIONS		
	AND LIMITATIONS		
	Second Application	8 to 16.fl oz	
	For fields with a history of		
	excessive growth, or if		
	conditions after the first		
	application favor excessive		
	growth, make a second		
	application in 2 to 3 weeks.		
	Third Application	8 to 16 fl oz	
	If conditions after the second		
	application of Willowood Mepi		
	Chlor 4.2% continue to favor		
	vigorous growth, apply a third		
	application 1 to 2 weeks after		
	the second application.		
	Late Season Application:	8 to 24 fl oz	
	See section titled "Late		
	Season Application of		
	Willowood Mepi Chlor 4.2%".		

II. LOW-RATE MULTIPLE APPLICATIONS:

Use these instructions when you want to maintain maximum flexibility in plant regulation treatments.

AREA	TIME OF APPLICATION	EXCESSIVE GROWTH NOT EXPECTED OR LOWER RATES HAVE WORKED IN THE PAST	EXCESSIVE GROWTH EXPECTED OR HIGHER RATES HAVE BEEN NECESSARY IN THE PAST
AL,	First Application:	2 fl oz	4 fl oz
AR, AZ, CA,	Apply at the matchhead square ¹ stage of growth.		
FL,	Second Application:	2 fl oz	4 fl oz
GÁ, LA,	7-14 days later, or when regrowth occurs.		
MO,	Third Application	2 to 4 fl oz*	4 to 8 fl oz*
MS, NC, NM,	7-14 days later, or when regrowth occurs.		
OK,	Fourth Application	2 to 8 fl oz*	4 to 12 fl oz*
SC, TN,	7-14 days later, or when regrowth occurs.		
TX,	Fifth Application	4 to 8 fl oz*	4 to 12 fl oz*
VA	(If needed): 7-14 days later, or when regrowth occurs.		
	Late Season Application: See section titled "Late Season Application of Willowood Mepi Chlor 4.2%".	8 to 16 fl oz*	12 to 24 fl oz*

^{*}Use the higher rate if previous application was not made or if growing conditions favor excessive growth.

¹Matchhead square is when the first square of a typical cotton plant is about the size of a match head (about 1/8" in diameter). Make the first application when 50% of the plants have one or more matchhead squares.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in locked area in original container only, with lid tightly closed. Store separately from other pesticides and fertilizers, food and feed to prevent contamination. Use care to avoid puncturing container during storage or transit. In case of a spill or leaking container, call CHEMTREC at 1-800-424-9300.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Rigid Non-refillable containers that are small enough to shake (i.e., with capacities less than 5 gallons or 50 lbs)

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application or other unknown factors; all of which are beyond the control of Willowood USA, and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Willowood USA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Willowood USA, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, WILLOWOOD USA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, WILLOWOOD USA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF WILLOWOOD USA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF WILLOWOOD USA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT WILLOWOOD USA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

Willowood Mepi Chlor 4.2%

Active ingredient:	
*Mepiquat Chloride: N,N-dimethylpiperidinium Chloride	4.2%
Other Ingredients:	
Total	
*Contains 0.35 pounds active ingredient per gallon	

KEEP OUT OF REACH OF CHILDREN CAUTION - PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID					
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. 				
IF SWALLOWED:	 Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. 				
IF ON SKIN OR CLOTHING:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice 				

NOTE TO PHYSICIAN: No known antidote, treat symptomatically.

EMERGENCY CONTACT: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222. For chemical emergency assistance (spill, leak, fire, or accident) call CHEMTREC at 1-800-424-9300.

See Additional Precautionary Statements inside Booklet

EPA Reg. No. 87290-

EPA Est. No.

Net contents:

Manufactured For: Willowood USA, LLC 1600 NW Garden Valley Blvd. Suite 120 Roseburg, OR 97471

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin and clothing.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart. Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- 2. Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate.
- 3. Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal area below the high water mark. Do not contaminate water when disposing of rinsate or equipment washwater. Do not contaminate water by cleaning of equipment of disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170, This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides, ft contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statement on this label about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- 1. Coveralls
- 2. Chemical resistant gloves made of any waterproof material
- 3. Shoes plus socks

PRODUCT INFORMATION

Willowood Mepi Chlor 4.2% is a foliar applied plant regulator. It allows the grower to manage the cotton plant for short-season production leading to reduced risk of yield and quality loss due to delayed and prolonged harvest. Benefits derived from the use of Willowood Mepi Chlor 4.2% include increased early boll retention and/or larger bolls, reduced plant height which provides a more open canopy, less boll rot, improved defoliation, less trash and lower ginning costs, better harvest efficiency and a darker leaf color. These benefits can provide for earlier maturity and often result in improved yields.

Early Application of Willowood Mepi Chlor 4.2%

Growers may use low-rate multiple applications, or higher, less frequent dosages which provide maximum flexibility under a wide range of growing conditions. Willowood Mepi Chlor 4.2% should not be applied to plants under stress. If stress is alleviated, plants should be evaluated for vegetative growth before additional applications are made. Willowood Mepi Chlor 4.2% may be tank mixed with insecticides/miticides when application timing coincides. (See RESTRICTIONS AND LIMITATIONS)

Fields should be carefully scouted. Willowood Mepi Chlor 4.2% should not be applied if plants are under any form of stress. In the absence of stress, a maximum of five low rate applications can be made each season. The first application can be applied at the matchhead square stage. The rate and timing of subsequent applications depend on growing conditions and desired benefits. Under good growing conditions, additional treatments of 2-4 fluid ounces per acre can be made at 7-14 day intervals. Higher rates of Willowood Mepi Chlor 4.2% (1/4 - 3/4 pt/A) should be used if vegetative growth becomes excessive or a greater degree of height control is decired. Do not use more than a total of 48 fl oz of Willowood Mepi Chlor 4.2% per acre in a growing season.

If significant loss of squares and/or young bolls has occurred earlier due to insect pressure or other stresses, but now these stresses have been alleviated, the need for Willowood Mepi Chlor 4.2% is increased - excess vegetative growth is likely because of poor fruit load.

Late Season Application of Willowood Mepi Chlor 4.2%

Late application of Willowood Mepi Chlor 4.2% (approximately during the fourth to sixth week of blooming) can provide certain benefits to cotton. However, it should not and does not substitute for early season use, the time of the greatest benefit from the use of Willowood Mepi Chlor 4.2%. Late season application can lead to one or more of the following: reduction in late season vegetative growth or regrowth after cutout or defoliation, more complete and manageable cutout, better defoliation, earlier maturity and reduction in trash and lower ginning costs. Some of these effects may favorably influence the yield potential and fiber quality. A late season application of Willowood Mepi Chlor 4.2% should be applied only if fields are not drought or nutrient stressed; that is, those fields likely to experience additional vegetative growth or regrowth. However, fields that are very rank and extremely vigorous due to a combination of poor boll load and excellent growing conditions may not respond as much as desired to late season applications at the suggested rates.

Timing for Late Season Applications

- A. On fields where cotton cuts out and then starts regrowth: apply when regrowth begins, as evidenced by new leaves in the terminal and stem elongation. This would often, but not always, be in the period of 5-6 weeks after the first bloom.
- B. On fields where cotton never completely cuts out, apply Willowood Mepi Chlor 4.2% when there are 4-6 nodes above the white flower (NAWF). Measure NAWF by counting the number of mainstem nodes from the first position white bloom (the one closest to the mainstem) to the terminal. Count the node with the first position white bloom as zero and the last node in the terminal, which is counted, should have a leaf at least the size of a quarter. Generally, the NAWF first reaches 4-6 during the fourth to sixth week of bloom. During this time period, the NAWF should be decreasing about one node every 5-6 days if its rate of decrease is less, this means that the plant is not cutting out soon enough (the crop is too vigorous). If the fifth week of bloom arrives and NAWF is still above 5-6, apply Willowood Mepi Chlor 4.2%.

Use Rate for Late Season Application

Willowood Mepi Chlor 4.2% should be applied at a rate between ½ pint to 1½ pints per acre. Use the lower rate range on cotton with only moderate additional growth potential, and the higher rate range on fields likely to continue vigorous growth. Total seasonal use per season (early plus late application) must not exceed 3 pt/A.

SPRAY VOLUMES

Thorough coverage is required

IN WATER:

Areas other than California: Ground Application - Use a minimum of 2 gal/A. Aerial Application - Use a minimum of 2 gal/A. California Only:

Ground Application - Use a minimum of 5 gal/A. Aerial Application - Use a minimum of 5 gal/A.

IN OIL:

Use a minimum total oil volume of 2 pt/A for ultra low volume (ULV) aerial application. Application in oil is permitted only in AL, AR, FL, GA, LA, MO, MS, NC, OK, SC, TN and TX. Use a nonphytotoxic oil concentrate which contains either a petroleum or vegetable oil base, contains only EPA-exempt ingredients, provides good mixing quality in the jar test (see "Compatibility" section), and has been used successfully in your locality. The oil diluent should contain emulsifiers which provide good mixing quality. If the oil does not contain an emulsifier, one must be added during mixing at a volume equal to 3% of the final volume of the mixing tank. Do not apply Willowood Mepi Chlor 4.2% as ULV without using emulsifiers. If using a vegetable oil based product, only highly refined concentrates should be used.

Mix under constant agitation. Pour one-half of the required volume of oil into the spray tank, followed by the emulsifier (if the oil does not. already contain one) at approximately 3% of the final spray tank volume, and then pour in the Willowood Mepi Chlor 4.2% while the remainder of the oil is added. Constant, moderate agitation is required during and after mixing and during application.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

INFORMATION ON DROPLET SIZE: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle
 types lower pressure produces larger droplets. When higher flow rates are needed, use higher
 flow rate nozzles instead of increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream
 produces larger droplets than other orientations and is the recommended practice. Significant
 deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle
 types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid
 stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH: For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND: Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under

low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

RAIN WASH-OFF PRECAUTION

The use of a high quality, EPA exempt surfactant will enhance the uptake of Willowood Mepi Chlor 4.2% into the plant. Therefore, the use of a surfactant allows applications made as little as 4 hours prior to rainfall to be effective. Without a surfactant, the product should be used at least 8 hours prior to expected rainfall.

COMPATIBILITY

Willowood Mepi Chlor 4.2% is water based, and is compatible with most insecticides and miticides. If compatibility is in doubt, perform a jar test to check for compatibility. Willowood Mepi Chlor 4.2% can be used with foliar fertilizers if your prior experience shows the combination is compatible and will not injure cotton under your conditions. Caution should be used when applying with foliar fertilizers under conditions of extreme heat.

RESTRICTIONS AND LIMITATIONS

- Insect or mite damage to Willowood Mepi Chlor 4.2% treated crops can lead to yield decreases or other undesirable effects.
- Do not apply Willowood Mepi Chlor 4.2% to cotton that is under stress. If using low rate multiple applications, discontinue use until your crop has overcome any stress.
- Do not apply more than 48 fl oz of Willowood Mepi Chlor 4.2% per acre per season. The sum of all products and formulations containing mepiquat chloride must not exceed 0.132 pounds (60 grams) of mepiquat chloride per acre per season.
- Do not apply Willowood Mepi Chlor 4.2% within 30 days of harvest.
- Do not graze or feed cotton forage to livestock.
- Willowood Mepi Chlor 4.2% contains a dye and effectiveness is not related to the color of the spray solution.
- Do not tank mix with other products other than those mentioned under "COMPATIBILITY".
- Do not plant another crop within 75 days after last treatment.

TIME AND RATE OF APPLICATION SHORT-STAPLE AND LONG-STAPLE (PIMA) COTTON

Directions for use should be observed as specified below:

I. HIGH RATE SINGLE OR MULTIPLE APPLICATIONS:

Use these instructions when you are not able to start growth regulation treatments early, or when you want to make the fewest number of applications.

AREA	TIME OF APPLICATION	RATE PER ACRE
	First Application	8 to 16 fl oz
AL, AR, AZ, CA, FL, GA, LA, MO, MS, NM, NC, SC, TN, VA	Apply when cotton is actively growing and is between 20 and 30" tall, but not more that	
	7 days beyond early bloom (5-6 blooms per 25 row feet).	
	Also apply if cotton is 24" tall and has no blooms.	
	Second Application	8 to 16 fl oz
	Make another application in 2 to 3 weeks if additional growth control is desired.	
A ₁₀	Third Application for control of excessive Vegetative Growth	8 to 16 fi oz
	If the cotton field has a history of vigorous growth apply a third application 1 to 2 weeks after the second application.	
	Late Season Application	8 to 24 fl oz
	See section titled "Late Season Application of	
OK TY (Bis 6 I	Willowood Mepi Chlor 4.2%".	
OK, TX (except Rio Grande	First Application	8 fl oz
Valley)	Apply when cotton is in the	
Areas without a history of	early bloom stage (5-6 blooms per 25 row feet) and actively	
excessive vegetative growth	growing. Also apply if no	
excessive vegetative growth	blooms are present and the	
	cotton is 20" tall and actively growing.	
	See RESTRICTIONS AND LIMITATIONS	
	Second Application	8 fl oz
	Make a second application in 2 to 3 weeks if additional	
	growth control is desired.	
	Third Application	8 fl oz
	If conditions after the second	
	application of Willowood Mepi	
	Chlor 4.2% continue to favor	
	vigorous growth, apply a third	
	application 1 to 2	
	weeks after the second application.	

AREA	TIME OF APPLICATION	RATE PER ACRE
i i	Late Season Application	8 to 24 fl oz
	See section titled "Late	
	Season Application of	
V-199	Willowood Mepi Chlor 4.2%".	
OK, TX	First Application	16 fl oz
Areas with a history of	For best results, apply when	
excessive vegetative growth	plants are in early bloom stage	
	(5-6 blooms per 25 row feet)	
590	and an average of 24" tall.	
	Treatments can also be made	
	when cotton height averages a	
	minimum of 20" and a	
	maximum of 30" provided	
Like	cotton is not more than 7 days	
4.10	beyond early bloom. If cotton	0.20
	is 24" tall and has no blooms,	
	apply Willowood Mepi Chlor	
	4.2%.	
	See RESTRICTIONS	
	AND LIMITATIONS	
	Second Application	8 to 16 fl oz
**	For fields with a history of	
9	excessive growth, or if	
	conditions after the first	3c.
	application favor excessive	
	growth, make a second	
	application in 2 to 3 weeks.	0.1.40.7
	Third Application	8 to 16 fl oz
	If conditions after the second	
	application of Willowood Mepi	
	Chlor 4.2% continue to favor	
	vigorous growth, apply a third	
	application 1 to 2 weeks after	
	the second application.	9 to 24 fl or
	Late Season Application:	8 to 24 fl oz
	See section titled "Late	
	Season Application of	
(B.1) (C. C. C	Willowood Mepi Chlor 4.2%".	

II. LOW-RATE MULTIPLE APPLICATIONS:

Use these instructions when you want to maintain maximum flexibility in plant regulation treatments.

AREA	TIME OF APPLICATION	EXCESSIVE GROWTH NOT EXPECTED OR LOWER RATES HAVE WORKED IN THE PAST	EXCESSIVE GROWTH EXPECTED OR HIGHER RATES HAVE BEEN NECESSARY IN THE PAST
AL,	First Application:	2 fl oz	4 fl oz
AR, AZ,	Apply at the matchhead square stage of growth.		
CA, FL,	Second Application:	2 fl oz	4 fl oz
GA, LA,	7-14 days later, or when regrowth occurs.		
MO,	Third Application	2 to 4 fl oz*	4 to 8 fl oz*
MS, NC, NM,	7-14 days later, or when regrowth occurs.		*.
OK,	Fourth Application	2 to 8 fl oz*	4 to 12 fl oz*
SC, TN,	7-14 days later, or when regrowth occurs.		
TX,	Fifth Application	4 to 8 fl oz*	4 to 12 fl oz*
VA	(If needed): 7-14 days later, or when regrowth occurs.		
	Late Season Application: See section titled "Late Season Application of Willowood Mepi Chlor 4.2%".	8 to 16 fl oz*	12 to 24 fl oz*

^{*}Use the higher rate if previous application was not made or if growing conditions favor excessive growth.

¹Matchhead square is when the first square of a typical cotton plant is about the size of a match head (about 1/8" in diarneter). Make the first application when 50% of the plants have one or more matchhead squares.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in locked area in original container only, with lid tightly closed. Store separately from other pesticides and fertilizers, food and feed to prevent contamination. Use care to avoid puncturing container during storage or transit. In case of a spill or leaking container, call CHEMTREC at 1-800-424-9300.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Rigid Non-refiliable containers that are small enough to shake (i.e., with capacities less than 5 gallons or 50 lbs)

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application or other unknown factors; all of which are beyond the control of Willowood USA, and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Willowood USA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Willowood USA, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, WILLOWOOD USA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, WILLOWOOD USA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF WILLOWOOD USA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF WILLOWOOD USA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT WILLOWOOD USA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.



United States

Environmental Protection Agency

Washington, DC 20460

Formulator's Exemption Statement

(40 CFR 152.85)

Applicant's Name and Address	EPA File Symbol/Registration Number 87290-GN
Willowood USA LLC c/o Wagner Regulatory Associates, Inc.	Product Name Willowood Mepi Chlor 4.2%
P.O. Box 640 Hockessin, DE 19707	Date of Confidential Statement of Formula (EPA Form 8570-4) 01/26/2012

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Mepiquat chloride

- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).
- (3) Indicate by checking (A) or (B) below which paragraph applies:
- (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

- (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.
- (4) The following active ingredients in this product qualify for the formulator's exemption.

Source						
Active Ingredient	Product Name		Registration Number			
Aepiquat chloride						
	*					
		£				
Signature 0 · 720 ft.	Name and Title		Date O. (2012			
Lou Khler	Lori Kohler, Agent		01/26/2012			

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 – EPA Copy 2 - Applicant copy



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

DP BARCODE No.: <u>D397955</u> FILE SYMBOL No.: 87290-GN PRODUCT NAME: WILLOWOOD MEPI CHLOR 4.2% DECISION No.: 456355 PC Code(s): 109101

Action Code: R300 FOOD Use: YES

DATE OUT: 01/25/12

SUBJECT: End Use Product Chemistry Review

Product Name: WILLOWOOD MEPI CHLOR 4.2%

FROM: Indira Gairola, Product Chemistry Team

Technical Review Branch / Registration Division (7505P)

TO: Shaunta Hill /Shaja Joyner PM 20

Fungicide Branch/Registration Division (7505P)

Company Name: WILLOWOOD, LLC.

Formulation Type: Fungicide

INTRODUCTION:

The registrant is resubmitting a revised Basic and Alternate CSF (both dated 01/11/12). The registrant submitted previously CSF for a basic formulation along with an alternate CSF both dated 11/28/11 and an application for the registration of the new end use product "WILLOWOOD MEPI CHLOR 4.2%". The CSFs dated 11/28/11 were rejected because one of the inert ingredients was not approved by the Agency. In support of the registration application, the registrant had submitted 830 series group A and group B product chemistry data with MRID No.486212-01, -02,-03 &-04. These were reviewed on 12/21/11. For details please refer to the review by Indira Gairola under Bar Code 392958. According to the registrant's letter the subject product is similar to EPA Reg. No. 66330-241.

SUMMARY OF FINDINGS:

1. Name of Active Ingredient(s): Mepiquat chloride (4.2%)

1 | Page

۷.	has the registrant claimed substantial similarity to a registered product?
	[X] Yes; [] No; [] NA; if yes give the registration number of the cited product.
3.	EPA Reg. No. 66330-241 All of the source materials of the active ingredient are derived from registered sources- [X] Yes [] No
4.	All inert ingredients have been screened by IIAB and found to be approved for the proposed labeled uses: [] Yes; [X] No; [] NA;
5.	Confidential Statement of Formula(s):
	[X] Basic - Dated: - 11/28/11; Re-submitted - Dated: 01/11/12
	[X] Alternate: Dated: 11/28/11 Re-submitted - Dated: 01/11/12
	Alternate CSF Re-submitted - Dated: 01/11/12 complies with 40CFR§152.43: [] Yes; [X] No; [] [] NA
6.	Product label
	 a. Ingredient statement: Nominal concentration of AI listed on CSF(s) concurs with product label (PR Notice 91-2). [X] Yes; [] No; if not, explain below:
	Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs. other ingredient) [X] Yes; [] No; if not, explain below:
	Metallic equivalent: [] Yes [X] NA Soluble arsenic: [] Yes [X] NA Isomeric ratios: [] Yes [X] NA Acid Equivalent: [] Yes [X] NA; acid equivalent = b. Health related sub statements: Product contains?
	Petroleum distillate at > 10%: [] Yes [X] No [] NA Methanol at > 4%: [] Yes [X] No [] NA Sodium nitrate/Sodium nitrite [] Yes [X] No [] NA
	 Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown? [X] Yes; [] No

 $2\mid P\; a\; g\; e$

- c.
 Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)?
 [] Yes; [] No; [X] NA; if not, explain below
- d. Label requires an additional Storage and Disposal statement:

[] Yes; [X] No; if yes explain below:

7. Group A: Product Chemistry Data

TRB's determination of the acceptability for the proposed product is listed in the tables below.

Guideline	Study Title Product Identity & Composition		Data submitted		TRB's Assessment of	
No.			Yes	No	Data	MRID Nos.
830.1550			X		A	486212-01; CSF 01/11/12
830.1600	Description of materials used to produce the product		X		A	
830.1650	Description of formulation process		X		A	66 66
830.1670	Discussion on the formation of impurities		X		A	
830.1700	Preliminary Analysis			X	NA	
830.1750	Certified	Standard certified limits	X		A.For active ingredients	486212-02
	limits	Proposed Limits	X		A	
	(158.350)	Justification for wider limits	X			
830.1800	Enforcement analytical method		X		A	486212-02

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable; U = Upgradeable.

CONCLUSIONS:

The TRB has reviewed revised Basic and Alternate CSF (both dated 01/11/12) and the product chemistry data submitted for the proposed end-use product and has concluded that:

- The CSF for the basic and alternate formulation (both resubmitted dated 01/11/2012) are acceptable for approved food use.
- The data submitted data corresponding to guideline 830.1550 (product identity and composition) are acceptable.
- 3. The subject product is not substantially similar to EPA Reg. No. 66330-241 from product chemistry point of from product chemistry point of view for the following reasons:
- a) density and pH value are different for the proposed and the cited product.
- b) impurity profile for the sources of active ingredients are different
- 4. The proposed label was screened as it pertains to the product chemistry requirements. The final review of the proposed label and uses are the purview of the PM team.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

DP BARCODE No.: D395928 FILE SYMBOL No.: 87290-GN PRODUCT NAME: WILLOWOOD

MEPI CHLOR 4.2% DECISION No.: 456355 PC Code(s): 109101 Action Code: R300

FOOD Use: NO

DATE OUT:

12/21/11

SUBJECT:

End Use Product Chemistry Review

Product Name: ARBORBIOTIC

Willowood mepi Chlor 4.2%

FROM:

Indira Gairola, Product Chemistry Team

Technical Review Branch / Registration Division (7505P)

TO:

Shaunta Hill /Shaja Joyner PM 20

Fungicide Branch/Registration Division (7505P)

Company Name: WILLOWOOD, LLC.

Formulation Type Fungicide

INTRODUCTION:

The registrant has submitted an application for the registration of the new end use product "WILLOWOOD MEPI CHLOR 4.2%". In support of the registration application, the registrant has submitted 830 series group A and group B product chemistry data with MRID No.486212-01, -02,-03 &-04. The registrant submitted a CSF for a basic formulation (dated 10/12/2011) that was resubmitted (dated 11/28/11) along with an alternate CSF dated 11/28/11. According to the registrant's letter the subject product is similar to EPA Reg. No. 66330-241.

SUMMARY OF FINDINGS:

- 1. Name of Active Ingredient(s): Mepiquat chloride (4.2%)
- 2. Has the registrant claimed substantial similarity to a registered product?

[X] Yes; [] No; [] NA; if yes give the registration number of the cited product.

EPA Reg. No. 66330-241



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

DP BARCODE No.: D395928 FILE SYMBOL No.: 87290-GN PRODUCT NAME: WILLOWOOD

MEPI CHLOR 4.2% DECISION No.: 456355 PC Code(s): 109101 Action Code: R300

FOOD Use: NO

DATE OUT:

12/21/11

SUBJECT:

End Use Product Chemistry Review

Product Name: Willowood Mepichla #

FROM:

Indira Gairola, Product Chemistry Team

Technical Review Branch / Registration Division (7505P)

TO:

Shaunta Hill /Shaja Joyner PM 20

Fungicide Branch/Registration Division (7505P)

Company Name: WILLOWOOD, LLC.

Formulation Type Fungicide

INTRODUCTION:

The registrant has submitted an application for the registration of the new end use product "WILLOWOOD MEPI CHLOR 4.2%". In support of the registration application, the registrant has submitted 830 series group A and group B product chemistry data with MRID No.486212-01, -02,-03 &-04. The registrant submitted a CSF for a basic formulation (dated 10/12/2011) that was resubmitted (dated 11/28/11) along with an alternate CSF dated 11/28/11. According to the registrant's letter the subject product is similar to EPA Reg. No. 66330-241.

SUMMARY OF FINDINGS:

- 1. Name of Active Ingredient(s): Mepiquat chloride (4.2%)
- 2. Has the registrant claimed substantial similarity to a registered product?

[X] Yes; [] No; [] NA; if yes give the registration number of the cited product.

EPA Reg. No. 66330-241

3.	All of the source materials of the active ingredient are derived from registered sources- [X] Yes [] No					
4.	All inert ingredients have been screened by IIAB and found to be approved for the proposed labeled uses: [] Yes; [X] No; [] NA;					
5.	Co	onfidential Statement of Formula(s):				
	[X] Basic - Dated: 10/12/2001; Re-submitted - Dated: 11/28/11					
		Alternate: [X] NA ernate CSF11/28/11 complies with 40CFR§152.43: [] Yes; [X] No; [] NA				
6.	Pro	oduct label				
	 Ingredient statement: Nominal concentration of Al listed on CSF(s) concurs with product label (PR Notice 91-2). [X] Yes; [] No; if not, explain below: 					
	Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs. other ingredient) [X] Yes; [] No; if not, explain below:					
		Metallic equivalent: [] Yes [X] NA Soluble arsenic: [] Yes [X] NA Isomeric ratios: [] Yes [X] NA Acid Equivalent: [] Yes [X] NA; acid equivalent =				
	b.	Health related sub statements: Product contains?				
		Petroleum distillate at > 10%: [] Yes [X] No [] NA Methanol at > 4%: [] Yes [X] No [] NA Sodium nitrate/Sodium nitrite [] Yes [X] No [] NA				
	 Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for flammability, explosive potential or electric insulator breakdown? [X] Yes; [] No 					
		Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)? [] Yes; [] No; [X] NA; if not, explain below				
	d. Label requires an additional Storage and Disposal statement:					
	[] Yes; [X] No; if yes explain below:					

7. Group A: Product Chemistry Data

TRB's determination of the acceptability for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes No		Jata	
830.1550	Product Identity & Composition		Х		N	486212-01; CSF 11/28/11
830.1600	Description of materials used to produce the product		Х		Α	ti ii
830.1650	Description of formulation process		Х		Α	
830.1670	Discussion on the formation of impurities		Х		A	56 15
830.1700	Preliminary Analysis			X	NA	1
		Standard certified limits	X		A. For active ingredients	486212-02
830.1750	Certified limits (158.350)	Proposed Limits	Х		Α	
		Justification for wider limits	Х			
830.1800	Enforcement analytical method		Х		А	486212-02

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable; U = Upgradeable.

8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical state	Liquid	Α	486212-03
830.6315	Flammability	NA (is water based)	А	486212-03
830.6316	Explodability	NA (non explosive)	А	486212-03
830.7000	рН	Data states 6.27(1% soln.) CSF states 3.93	А	486212-03
830.7300	Density/ relative density/ bulk density/	Data states 0.980 g/cm³ @24°C CSF states 0.940 g/cm³ @24°C Clarification is required	А	486212-03

Particle size	NA	w	486212-04
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A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver request, NA = Not applicable, I = In progress; U = Upgradeable.

CONCLUSIONS:

The TRB has reviewed the product chemistry data submitted for the proposed end-use product and has concluded that:

- The proposed CSF for the basic formulation dated 10/12/2011 (resubmitted dated 11/28/11) and alternate CSF dated 11/28/11 are unacceptable, since they contain an inert ingredient not approved for food use. Please refer to the Confidential Appendix for details.
- 2. The data submitted data corresponding to guideline 830.1550 (product identity and composition) are acceptable.
- The product chemistry data submitted corresponding to guideline reference 830.1600 (description of materials used to produce the product) are acceptable.
- The data submitted corresponding to Guideline 830.1650 (description of formulation process) satisfy the data requirements.
- 5. Product chemistry data corresponding to guideline 830.1670 (discussion of the formation of impurities) and 830.1800 (enforcement analytical method) are acceptable.
- The product chemistry group B data are considered acceptable except clarification is required regarding some difference in pH and density value stated in data (MRID # 486212-03) and that stated on the CSF.
- The subject product is substantially similar to EPA Reg. No. 66330-241 from product chemistry point of view.
- The proposed label was screened as it pertains to the product chemistry requirements. The final review of the proposed label and uses are the purview of the PM team.
- In (MRID # 486212-04) registrant has requested a waiver for particle size and fiber length which the Agency feels acceptable.

Confidential Appendix

Name of the inert ingredient not approved for food use :



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

TECHNICAL REVIEW BRANCH SIMILARITY DETERMINATION

13/DEC/2011

MEMORANDUM

Subject:

Name of Pesticide Product:

Willowood Mepi Chlor 4.2%

EPA Reg. No. /File Symbol: 87290-GN

DP Barcode:

D395931 456355

Decision No: Action Code:

R300

PC Code:

109101 (mepiquat chloride)

Einclindin Myash

From:

Eugenia McAndrew, Biologist

Technical Review Branch

Registration Division (7505P)

To:

Shaunta Hill, RM Team 20

Fungicide Branch

Registration Division (7505P)

Applicant:

Willowood, LLC

c/o Wagner Regulatory Associates, Inc.

P.O. Box 640

Hockessin, DE 19707

FORMULATION FROM LABEL:

Active Ingredient(s):

% by wt.

Mepiquat Chloride

4.2

Other Ingredient(s):

95.8

Total:

100.0%

ACTION REQUESTED: The Risk Manager requests: "Please review the attached label for acceptability and similarity determination to EPA Reg. No. 66330-241."

BACKGROUND: Willowood, LLC has applied for registration of Willowood Mepi Chlor 4.2%, EPA File Symbol 87290-GN, claiming similarity to Mepichlor 4.2% Liquid, EPA Reg. No. 66330-241 (transferred from 51036-188). The active ingredient in both products is 4.2% mepiquat chloride. The registrant is using the cite-all method of data support to satisfy the acute toxicity data requirements. The submission includes a basic CSF dated October 12, 2011, a label and company letter.

A search of the OPP electronic databases shows that six acute toxicity studies were cited to support the reregistration of 66330-241. The studies were reviewed and discussed in two prior Product Reregistration Branch memos (Perry; D245488 and D245490; EPA Reg. Nos. 51036-188 and 51036-189; 28/APR/1998 and Perry; D247540 and D247541; EPA Reg. Nos. 51036-188 and 51036-189; 15/JUL/1998).

RECOMMENDATIONS:

- 1. TRB compared the basic CSFs of the proposed product, 87290-GN, and the cited product, 66330-241, and concluded that the two products are substantially similar.
- 2. The acute toxicity profile for the proposed product, Willowood Mepi Chlor 4.2%, EPA File Symbol 87290-GN, is as follows:

acute oral toxicity	III	cited	EPA Reg. No. 66330-241
acute dermal toxicity	III	cited	EPA Reg. No. 66330-241
acute inhalation toxicity	IV	cited	EPA Reg. No. 66330-241
primary eye irritation	Ш	cited	EPA Reg. No. 66330-241
primary skin irritation	IV	cited	EPA Reg. No. 66330-241
dermal sensitization	neg.	cited	EPA Reg. No. 66330-241

- 3. This memorandum pertains only to the decision concerning whether the subject product is similar to the cited product from an acute toxicological view point. For the purposes of this action, TRB has made no further determination of the adequacy of the toxicological data base or the precautionary label of the cited product.
- 4. The proposed basic CSF submitted for 87290-GN must be accepted by the TRB Product Chemistry Team.

LABELING: Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System:

PRODUCT ID #:

087290-00030

PRODUCT NAME:

Willowood Mepi Chlor 4.2%

PRECAUTIONARY STATEMENTS

SIGNAL WORD:

CAUTION

Hazards to Humans and Domestic Animals:

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. [Wear protective eyewear.]*

*[Protective eyewear may be specified, if appropriate.]

First Aid:

If on skin:

- -Take off contaminated clothing.
- -Rinse skin immediately with plenty of water for 15-20 minutes.
- -Call a poison control center or doctor for treatment advice.

If swallowed:

- -Call a poison control center or doctor immediately for treatment advice.
- -Have person sip a glass of water if able to swallow.
- -Do not induce vomiting unless told to by a poison control center or doctor.
- -Do not give anything to an unconscious person.

If in eyes:

- -Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- -Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- -Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

User Safety Recommendations:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.



Willowood Mepi Chlor 4.2% (EPA File Symbol 87290-GN)

Catherine Byrd to: Shaunta Hill, Shaja Joyner Cc: "Lori Kohler", "James M. Wagner"

01/13/2012 09:56 AM

Good morning,

I am following up on your recent communication with Lori Kohler in our office regarding one of the inerts in the above-referenced formulation. Please find the attached revised CSFs and cover letter explaining the changes. If you have any questions or need any additional information, please do not hesitate to contact Lori Kohler or myself.

Thank you,

Catherine

Catherine M. Byrd Regulatory Associate



Wagner Regulatory Associates Inc

Please note that our address and phone numbers have changed.

P.O. Box 640 7217 Lancaster Pike, Suite A Hockessin, Delaware 19707 P: 302.635.7283

C: 302.766.3414 F: 302.635.7295 www.wagnerreg.com

Willowood Mepiquat 4.2 Revised CSFs 12JAN11.pdf

January 12, 2012



Wagner Regulatory Associates, Inc. P.O. Box 640 7217 Lancaster Pike, Suite A Hockessin, Delaware 19707

Document Processing Desk
ATTN: Shaja Joyner, PM 20
Registration Division
U.S. Environmental Protection Agency
Office of Pesticide Programs (7504P)
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, Virginia 22202-4501

Dear Ms. Joyner,

Subject:

Revised Confidential Statement of Formula (CSF)

Willowood Mepi Chlor 4.2% (EPA File Symbol 87290-GN)

I am following up on the recent communication from Shaunta Hill to Lori Kohler at Wagner Regulatory Associates, Inc. (WRA) on this pending action. It was brought to our attention that a dye listed on the CSF was not cleared for food use. We apologize for this error. The EPA "inerts finder" database is available now to help us avoid this type of problem however it was not available at the time this submission was made in early October. Also we are typically informed by the 21-day front end screen personnel if there is such an issue with the inerts, but in this case we were not contacted. As you know this is one of the check list items on the 21-day screen form and it indicates that the applicant will be advised of this type of problem and given the opportunity to remove the inert or substitute it with another approved inert. I respectfully request that we now be given that opportunity.

The dye component is an extremely low percentage of this formulation at revised basic CSF where we have replaced it with which is listed in the EPA inerts finder as cleared for food. In an alternate CSF #2 we have eliminated the dye completely and made up the difference with the complete of the CSFs are enclosed and we have also submitted electronic copies of the CSFs to you by email.

If you have any questions about this submission please contact the undersigned at catherine@wagnerreg.com or (302) 635-7283.

Respectfully submitted,

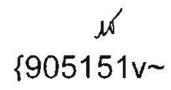
Catherine M. Byrd

Agent for Willowood USA, LLC

Catherine M Byrd

Enclosures

Fee for Service



This package includes the following	for Division		
 New Registration Amendment Studies? VFee Waiver? volpay % Reduction: 	○ AD ○ BPPD ○ RD Risk Mgr. 20		
Receipt No. S EPA File Symbol/Reg. No. Pin-Punch Date: This item is NOT subject	87290-GN 10/13/2011 to FFS action.		
Action Code: Requested: $R300$ Granted: $R300$ Amount Due: 1434	Parent/Child Decisions:		
Inert Cleared for Intended Use Reviewer:	. □ Uncleared Inert in Product □ Date: OCF, 14, 201		

Completion of 21-Day Content Screen

PM- 20

EPA Reg. #(File Symbol) 87290 - 6N

Decision # D_____

Data package delivered to you on 10/20/11 (date)

Jacket/Mini-jacket will be transferred to you today. (Pick up from Document Center)

Thank you, Annay

Registration Division's 21-Day Content Team



ADMINISTRATIVE	E NO(S):	87290-UN
di ca	*.	
PM: 20	. •	
CHEMICAL No.: _		

The jacket for this action can be requested through the JACKETS system.

Memorandum

Date:
To:, Regulatory Manage
From: Information Services Branch, ITRMD
Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.
We expect that it will be approximately 5 day from the above date before the study-level data is available in OPPIN.
If you have any questions about this process, please contact Teresa Downs (305-5363).
This is a: ☐ fully accepted submission ☐ partially accepted submission ☐ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

October 18, 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

PYXIS REGULATORY CONSULTING, INC. WILLOWOOD, LLC 4110 136TH ST., NW GIG HARBOR, WA 98332

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 13-OCT-11. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

21-Day Screen Completed by Contractor

Content Screen: Recommend to Pass/Fail

86-5 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

STEPHEN SCHAIBLE
PM-20

R 300 and 301

New products must provide a bridging rationale document. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline	Acute toxicity (6 pack)	Cited		
No.	Study Title	Yes	No	
870.1100	Acute Oral (LD50)	V		
870.1200	Acute Dermal (LD50)			
870.1300	Acute Inhalation (LC50)	V		
870.2400	Acute Eye Irritation	/		
870.2500	Acute Dermal Irritation	Jan. S.		
870.2600	Dermal Sensitization	/		

Efficacy - which guideline depends on the proposed label use and they must cite the data to be used for the bridging rationale.

Guideline		Cit	ed	
No.	Efficacy Study Titles		No	Comments
810.3100	Soil Treatments for Imported Fire Ants			
810.3200	Livestock, Poultry, Fur and Wool-Bearing Animal Treatments			
810.3300	Treatments to Control Pests of Humans and Pets			
810.3400	Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments			
810.3500	Premises Treatments			
810.3600	Structural Treatments			
810.3800	Methods for Efficacy Testing of Termite Baits			

PRIA 2 – 21 Day Content Screen Review Worksheet (EPA/OPP Use Only) 3/23/09

rA	Reg. Number: 87290 - GN EPA Receipt Date: 10-	13-	()			
	Items for Review			Yes	No	N/A
1	Application Form (EPA Form 8570-1)(link to form) signed & coincluding package type	×				
	Confidential Statement of Formula all boxes completed, form s dated (EPA Form 8570-4) (Link to form)	igned, a	nd	×		
2	a) All inerts (link to http://www.epa.gov/opprd001/inerts/), yes no					
	including fragrances, approved for the proposed uses (see Footnote A)					
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack)					
	Certificate and data matrix consistent					
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)					
	If applicable, is there a letter of Authorization for exclusive use or	nlv				
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical)					
	Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack)					
5		yes	no			
	a) Selective Method (Fee category experts use)	×				
	b) Cite-All (Fee category experts usc)					
	c) Applicant owns all data (Fee category experts use)					



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 14, 2011

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OPP Decision Number: D-456355

EPA File Symbol or Registration Number: 87290-GN Product Name: WILLOWOOD MEPI CHLOR 4.2%

EPA Receipt Date: 13-Oct-2011 EPA Company Number: 87290

Company Name: WILLOWOOD, LLC

LORI KOHLER
WAGNER REGULATORY ASSOCIATES, INC.
WILLOWOOD, LLC
P.O. BOX 640
HOCKESSIN, DE 19707

SUBJECT: Receipt of Application and 50% Small Business Waiver Request

Dear Registrant:

The Office of Pesticide Programs has received your application, 50% small business waiver request, and cerification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300 NEW PRODUCT; ME-TOO PRODUCT FAST TRACK;

Your request for waiver has been forwarded for review. You will be notified in writing when a determination is made regarding your request. If your waiver request is approved, the decision review time period will start on the date of approval. If your waiver request is denied, you will receive an invoice for the outstanding balance.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely.

Front End Processing Staff

Information Technology & Resources Management Division

Completion of 21-Day Content Screen

PM- 20

EPA Reg. #(File Symbol) 87290 - 6N

Decision # D_____

Data package delivered to you on 10/20/11 (date)

Jacket/Mini-jacket will be transferred to you today. (Pick up from Document Center)

Thank you, Amany

Registration Division's 21-Day Content Team



ADMINISTRATIVE NO(S):	87290-UN
PM: 20	
CHEMICAL No.:	

The jacket for this action can be requested through the JACKETS system.

Memorandum

Date:
To:, Regulatory Manager
From: Information Services Branch, ITRMD
Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.
We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.
If you have any questions about this process, please contact Teresa Downs (305-5363).
This is a: fully accepted submission partially accepted submission rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

October 18, 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

PYXIS REGULATORY CONSULTING, INC. WILLOWOOD, LLC 4110 136TH ST., NW GIG HARBOR, WA 98332

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Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

21-Day Screen Completed by Contractor

Content Screen: Recommend to Pass/Fail

86-5 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

STOPHEN SCHAIBLE
PM-20

R 300 and 301

New products must provide a bridging rationale document. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline	Acute toxicity (6 pack)	Cited		
No.	Study Title	Yes	No	
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870.1200	Acute Dermal (LD50)			
870,1300	Acute Inhalation (LC50)			
870.2400	Acute Eye Irritation	/		
870.2500	Acute Dermal Irritation	1		
870.2600	Dermal Sensitization	/		

Efficacy - which guideline depends on the proposed label use and they must cite the data to be used for the bridging rationale.

Guideline		Cit	ed	
No.	Efficacy Study Titles		No	Comments
810.3100	Soil Treatments for Imported Fire Ants			
810.3200	Livestock, Poultry, Fur and Wool-Bearing Animal Treatments			
810.3300	Treatments to Control Pests of Humans and Pets			
810.3400	Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments			
810.3500	Premises Treatments			
810.3600	Structural Treatments			
810.3800	Methods for Efficacy Testing of Termite Baits			

PRIA 2 – 21 Day Content Screen Review Worksheet (EPA/OPP Use Only)

21 Day Screen Start Date: 10-13-1	(1				
Experts In-Processing Signature: B.	<u> </u>	Date/0	7-17-11	Fee Paid:	Yes $ u$
Division management contacted on issues		Yes	_Date		_

	Yes	No	N/A*			
1	Application Form (EPA Form 8570-1)(link to form) signed & coincluding package type		×			
2	Confidential Statement of Formula all boxes completed, form s dated (EPA Form 8570-4) (Link to form)	igned, a	nd	×		
	a) All inerts (link to http://www.epa.gov/opprd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A)	yes	no			
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack)					
	Certificate and data matrix consistent	×				
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)					
	If applicable, is there a letter of Authorization for exclusive use or					
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link completed and signed (N/A if source is unregistered or applicant elechnical)	×				
	Data Matrix (EPA Form 8570-35) (Link to form) both internal at copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if repack)		nal	X		
5	a) Selective Method (Fee category experts use)	yes	no			
	b) Cite-All (Fee category experts use)					
	c) Applicant owns all data (Fee category experts use)					
6	5 Copies of Label (link to http://www.epa.gov/oppfead1/labelin (Electronic labels on CD are encouraged and guidance is available: http://www.epa.gov/pesticides/regulating/registering/submissions/index.	X				

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)	\times	
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)		X
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)		×
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C. a) List study (or studies) not included with application		

Comments:

A.I oddad. CSF oppored

Data Pertuge Approved
Registrant var a need contacted.

Jackel approved.

MP10:486012

* N/A - Not Applicable

1K-5-4813

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are strongly encouraged to verify that all inert ingredients have been approved for the application's uses even if a product is currently registered by consulting the inert Web site [link to http://www.epa.gov/opprd001/inerts/lists.html] and if the inert is not approved, to obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to

http://www.epa.gov/oppbppd1/biopesticides/contacts_bppd.htm].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to http://www.epa.gov/opprd001/inerts/tips.pdf] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

- Correct the application by, for instance, correcting the inert's identity or CAS
 number, providing documentation that the inert has been approved, or
 removing the unapproved inert from the CSF or replacing it with one that is
 approved for the application's uses; or
- Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

- Correct the application by, for instance, correcting the inert's identity or CAS
 number, providing documentation that the inert has been approved, or
 removing the unapproved inert from the CSF or replacing it with one that is
 approved for the application's uses; or
- 2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
- 3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

- Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
- 2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

- B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.
- C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 14, 2011

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OPP Decision Number: D-456355

EPA File Symbol or Registration Number: 87290-GN Product Name: WILLOWOOD MEPI CHLOR 4.2%

EPA Receipt Date: 13-Oct-2011 EPA Company Number: 87290

Company Name: WILLOWOOD, LLC

LORI KOHLER WAGNER REGULATORY ASSOCIATES, INC. WILLOWOOD, LLC P.O. BOX 640 HOCKESSIN, DE 19707

SUBJECT: Receipt of Application and 50% Small Business Waiver Request

Dear Registrant:

The Office of Pesticide Programs has received your application, 50% small business waiver request, and cerification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300 NEW PRODUCT; ME-TOO PRODUCT FAST TRACK;

Your request for waiver has been forwarded for review. You will be notified in writing when a determination is made regarding your request. If your waiver request is approved, the decision review time period will start on the date of approval. If your waiver request is denied, you will receive an invoice for the outstanding balance.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely.

Front End Processing Staff

Information Technology & Resources Management Division

Completion of 21-Day Content Screen

PM- 2	0
EPA Reg. #(File Symbol)_	87290-6N
Decision # D	

Data package delivered to you on 10/20/11 (date)

Jacket/Mini-jacket will be transferred to you today. (Pick up from Document Center)

Thank you, Mining Thank you, M

United States I comments Protection Agency Office of Pesticius Programs Information Respurses and Services Division Information Services Branch

SEPA

ADMINISTRATIVE NO(S):	87290-UN
PM: 20	
CHEMICAL NO.:	

The jacket for this action can be requested through the JACKETS system.

Memorandum

Date:	10 / 18 / 11
To:	PM 20 , Regulatory Manager
From:	Information Services Branch, ITRMD
indicatio	or receipt of this data submission is not an on that MRIDs for the enclosed studies have sted to OPPIN.
from the	expect that it will be approximately 5 days e above date before the study-level data is e in OPPIN.
•	ou have any questions about this process, ontact Teresa Downs (305-5363).
This is a	: □ fully accepted submission □ partially accepted submission □ rejected submission



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WASHINGTON, D.C. 20460

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OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

PYXIS REGULATORY CONSULTING, INC. WILLOWOOD, LLC 4110 136TH ST., NW GIG HARBOR, WA 98332

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21-Day Screen Completed by Contractor

21-Day	Expires	on _	11-3-	//
	Jacket #_	872	90-G1	/
	MRID#	486.	212	

Content Screen: Recommend to Pass/Fail

86-5 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

STOPHEN SCHAIBLE
PM-20

R 300 and 301

New products must provide a bridging rationale document. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline	Acute toxicity (6 pack)	Cited	
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870.1200	Acute Dermal (LD50)	/	
870.1300	Acute Inhalation (LC50)	V	
870.2400	Acute Eye Irritation	1	
870.2500	Acute Dermal Irritation	1	
870.2600	Dermal Sensitization	/	

Efficacy - which guideline depends on the proposed label use and they must cite the data to be used for the bridging rationale.

Guideline		Cited			
No.	Efficacy Study Titles	Yes No		Comments	
810.3100	Soil Treatments for Imported Fire Ants				
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PRIA 2 – 21 Day Content Screen Review Worksheet (EPA/OPP Use Only) 3/23/09

'A	Reg. Number: 87290 - GN EPA Receipt Date: 10 - 13 - 11			
	Items for Review	Yes	No	N/A
1	Application Form (EPA Form 8570-1)(link to form) signed & complete including package type	×		
	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form)	×		
2	a) All inerts (link to http://www.epa.gov/opptd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A)		M- 11 - 11-	
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack)			
	Certificate and data matrix consistent	X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)		2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	
	If applicable, is there a letter of Authorization for exclusive use only. Formulator's Exemption Statement (EPA Form 8570-27) (Link to form)			
1	completed and signed (N/A if source is unregistered or applicant owns the technical)	×		
	Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack)	×		
5	a) Selective Method (Fee category experts use) yes no			
	b) Cite-All (Fee category experts use)			
	c) Applicant owns all data (Fee category experts use)			

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)	X	
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)		×
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)		×
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C. a) List study (or studies) not included with application		

Comments:

A.T. odded.

* Data Partine Approved * Logistrant var a not contacted. * Jackel sprowed.

, MPID : 36612

* N/A - Not Applicable

1K-5-4813

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are strongly encouraged to verify that all inert ingredients have been approved for the application's uses even if a product is currently registered by consulting the inert Web site [link to http://www.epa.gov/opprd001/inerts/lists.html] and if the inert is not approved, to obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to

http://www.epa.gov/oppbppd1/biopesticides/contacts_bppd.htm].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to http://www.epa.gov/opprd001/inerts/tips.pdf] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

- Correct the application by, for instance, correcting the inert's identity or CAS
 number, providing documentation that the inert has been approved, or
 removing the unapproved inert from the CSF or replacing it with one that is
 approved for the application's uses; or
- Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

- Correct the application by, for instance, correcting the inert's identity or CAS
 number, providing documentation that the inert has been approved, or
 removing the unapproved inert from the CSF or replacing it with one that is
 approved for the application's uses; or
- 2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
- 3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

- Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
- 2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

- B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.
- C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

Completion of 21-Day Content Screen

PM- 20

EPA Reg. #(File Symbol) 87290 - 6N

Decision # D_____

Data package delivered to you on 10/20/11 (date)

Jacket/Mini-jacket will be transferred to you today. (Pick up from Document Center)

Thank you, Kingan

Registration Division's 21-Day Content Team



ADMINISTRATIVE NO(S).:	87290-UN
PM: 20	
CHEMICAL No.:	E.

The jacket for this action can be requested through the JACKETS system.

Memorandum

Date:	10 / (8 / 11
То:	PM 20 , Regulatory Manager
From:	Information Services Branch, ITRMD
indicatio	r receipt of this data submission is not an n that MRIDs for the enclosed studies have ted to OPPIN.
from the	expect that it will be approximately 5 days above date before the study-level data is e in OPPIN.
	ou have any questions about this process, ontact Teresa Downs (305-5363).
This is a	: □ fully accepted submission □ partially accepted submission □ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

October 18, 2011

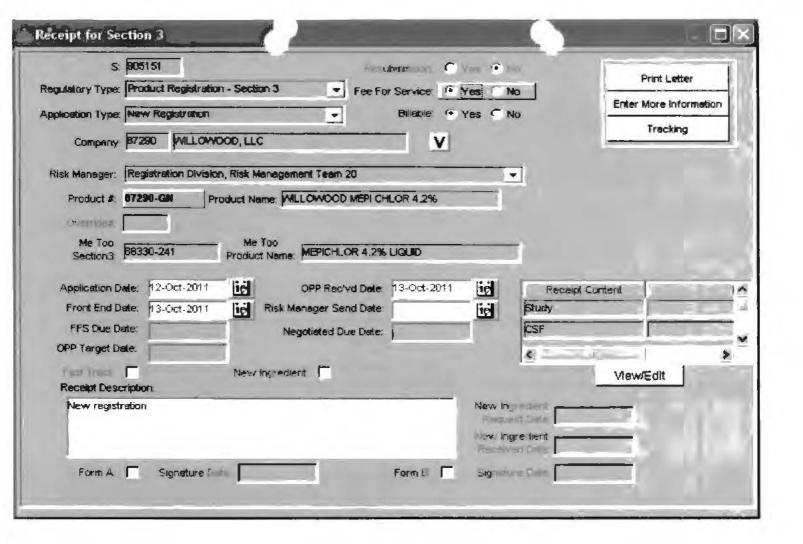
OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

PYXIS REGULATORY CONSULTING, INC. WILLOWOOD, LLC 4110 136TH ST., NW GIG HARBOR, WA 98332

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 13-OCT-11. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



21-Day Screen Completed by Contractor

21-Day	Expires on	11-3-11		
	-			

Jacket # 87290-GN MRID# 486212

Content Screen: Recommend to Pass/Fail

86-5 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

STOPHEN SCHMIBLE
PM-20

R 300 and 301

New products must provide a bridging rationale document. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline Acute toxicity (6 pack)		Cit	ed
No.	Study Title	Yes	No
870.1100	Acute Oral (LD50)	V	
870.1200	Acute Dermal (LD50)		
870.1300	Acute Inhalation (LC50)	V	
870.2400	Acute Eye Irritation	/	
870.2500	Acute Dermal Irritation	1	
870.2600	Dermal Sensitization		

Efficacy - which guideline depends on the proposed label use and they must cite the data to be used for the bridging rationale.

Guideline		Cited		
No.	Efficacy Study Titles	Yes	No	Comments
810.3100	Soil Treatments for Imported Fire Ants			
810.3200	Livestock, Poultry, Fur and Wool-Bearing Animal Treatments			
810.3300	Treatments to Control Pests of Humans and Pets			
810.3400	Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments			
810.3500	Premises Treatments			
810.3600	Structural Treatments			
810.3800	Methods for Efficacy Testing of Termite Baits			

PRIA 2 – 21 Day Content Screen Review Worksheet (EPA/OPP Use Only)

21 Day Screen Start Date: 10-13-11 3/23/09

Experts In-Processing Signature: 8.2 Date 10-17-11 Fee Paid: Yes \(\nu\)

Divi	sion management contacted on issues NoYesD	Date	20 0ab		3		
EPA	Reg. Number: 87290 - GN EPA Receipt Date: 10-	13-	()				
	Items for Review			Yes	No	N/A*	
1	Application Form (EPA Form 8570-1)(link to form) signed & coincluding package type	mplete		×			
	Confidential Statement of Formula all boxes completed, form s dated (EPA Form 8570-4) (Link to form)	igned, a	nd	×			
2	a) All inerts (link to http://www.epa.gov/opprd00)1/inerts/),	yes	no				
	Footnote A)	X					
3	Certification with Respect to Citation of Data (EPA Form 8570 form) completed and signed (N/A if 100% repack))-34) (Li	nk to	×			
	Certificate and data matrix consistent			×			100
	If applicant is relying on data that are compensable, is the offer to pay statement included, (see Footnote B)	yes	no				The second second
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link	to form		×			1 COM 1000 F TO 100 F
			nal	×			
5	a) Selective Method (Fee category experts use)	yes	no				
	b) Cite-All (Fee category experts use)						100
	c) Applicant owns all data (Fee category experts use)	r Review O-1)(link to form) signed & complete a all boxes completed, form signed, and form) a.gov/opprd001/inerts/), d for the proposed uses (see tion of Data (EPA Form 8570-34) (Link to 100% repack) at e compensable, is the offer note B) Incrization for exclusive use only. Int (EPA Form 8570-27) (Link to form) e is unregistered or applicant owns the (Link to form) both internal and external completed and signed (N/A if 100% (Link to form) both internal and external completed and signed (N/A if 100% experts use) se) tegory experts use) www.epa.gov/oppfead1/labeling/lrm/) traged and guidance is available) (link to					
6	Application Form (EPA Form 8570-1)(link to form) signed & complete including package type Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form) a) All inerts (link to http://www.epa.gov/opprd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A) Certification with Respect to Citation of Data (EPA Form 8570-34) (Link toform) completed and signed (N/A if 100% repack) Certificate and data matrix consistent If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B) If applicable, is there a letter of Authorization for exclusive use only. Formulator's Exemption Statement (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical) Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack) a) Selective Method (Fee category experts use) b) Cite-All (Fee category experts use)	nk to	X				

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)	X	
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)		X
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)		×
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C. a) List study (or studies) not included with application		

Comments:

A.T codded.

CSF aproved

Data Ractions Approved
Registrant vor a not contacted.
Jacket proved.

. MPIL:486:12

* N/A - Not Applicable

1K-5-4813

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all incrts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

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- 2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

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- C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 14, 2011

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OPP Decision Number: D-456355

EPA File Symbol or Registration Number: 87290-GN Product Name: WILLOWOOD MEPI CHLOR 4.2%

EPA Receipt Date: 13-Oct-2011 EPA Company Number: 87290

Company Name: WILLOWOOD, LLC

LORI KOHLER
WAGNER REGULATORY ASSOCIATES, INC.
WILLOWOOD, LLC
P.O. BOX 640
HOCKESSIN, DE 19707

SUBJECT: Receipt of Application and 50% Small Business Waiver Request

Dear Registrant:

The Office of Pesticide Programs has received your application, 50% small business waiver request, and cerification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300 NEW PRODUCT; ME-TOO PRODUCT FAST TRACK;

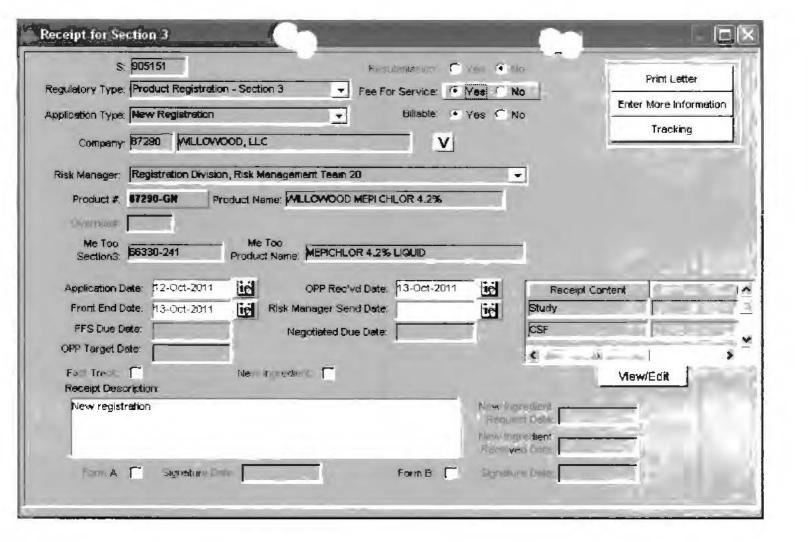
Your request for waiver has been forwarded for review. You will be notified in writing when a determination is made regarding your request. If your waiver request is approved, the decision review time period will start on the date of approval. If your waiver request is denied, you will receive an invoice for the outstanding balance.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely

Front End Processing Staff

Information Technology & Resources Management Division



Online Payment

Step 3: Confirm Payment

1 | 2 | 3

Thank you.

Your transaction has been successfully completed.

Pay.gov Tracking Information

Application Name: PRIA Service Fees

Pay.gov Tracking ID: 254LR9QM Agency Tracking ID: 74245318487

Transaction Date and Time: 10/12/2011 16:59 EDT

Payment Summary

Address Information

Account Holder Name: Brian Heinze

1600 NW Garden

Billing Address: Valley Blvd

Billing Address Suite 120

City: Roseburg

State / OR Province:

Zip / Postal 97471

Code:

Country: USA

Account Information

Card Type: Master Card

Card Number: ********6005

Decision

Number:

Registration

Number:

Willowood USA

Company Name: LLC

Company 87290 Number:

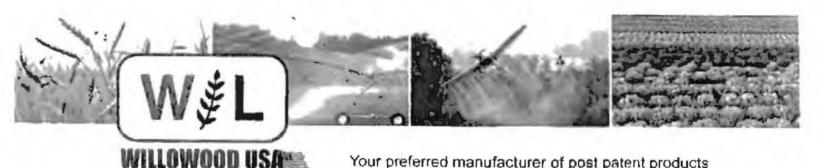
Action Code: R300

Payment Information

Payment Amount: \$717.00

Transaction Date 10/12/2011

and Time: 16:59 EDT



Your preferred manufacturer of post patent products

August 31, 2010

To: Whom it May Concern

Re: Designation of Agent for: Willowood USA, LLC 1600 NW Garden Valley Blvd. Suite 130 Roseburg, OR 97471

Dear Sir or Madam

This letter serves as notification that Willowood USA, LLC has appointed Wagner Regulatory Associates, Inc. (WRA, Inc.) to serve as the Agent on our company's behalf regarding all state and federal regulatory matters relative to products that Willowood USA, LLC will register with US EPA and the states. Please forward all correspondence for our company and its products to:

Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707-0640

Thank you for your time and assistance. Please feel free to call me at if you have any questions.

Respectfully submitted,

Brian Heinze President|CEO

cc: WRA, Inc.

Please read instructions on reverse before completing fr	Form	Appro	ved. ON ' 'o. 20		
Company Product Number Company Product Num	PP Identifier Number				
Applic	cation for Pesticide - Se	ctio	n I		
Company/Product Number	Market Process and a minima and primary and a market and a constraint and a second			3. Pro	posed Classification
87290-GN	Shaja Joyner				
4. Company/Product (Name)	PM#				loss Bostriated
Willowood USA, LLC/Willowood Mepi Chlor 4.2%	20				lone Restricted
Willowood USA, LLC c/o Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707	(b)(l), my product to: EPA Reg. No. 66	is simi 3330-24	lar or identical	in comp	
			11 A ST 1		- Innie (ni
Resubmission in response to Agency letter dated	Agency let Me Too" A Other - Exp	ter date Applicati	d on.		
Explanation: Use additional page(s) if necessary. (For Section I and Section II.)				
	Section - III				
			T =		
Yes* X No Yes No If "Yes" Unit Packaging wgt.	Yes X No No No No No No No	. per	X	Metal Plastic Glass Paper	posify HDDE lined book
be submitted				Other (o)	Decity) FIDE lined bags
	Sign All All All All All All All All All Al	5.	On Lab	el	
6. Manner in Which Lahel is Affixed to Product	A Paper glued		Other		
	Section - IV				
	dentification of individual to be co	ontacte			The state of the s
Lori Kohler Agen	t for Willowood USA, LLC		(302) 635	5-7281	
Certification I certify that the statements I have made on this form and a lacknowledge that any knowingly false or misleading state both under applicable law.	ation all attachments thereto are true, acciement may be punishable by fine or i		d complete		red
2. Signature	75000 - 100000000000000000000000000000000				
4 Typed Name Lori Kohler	October 12, 2011				

This is a reproduction of EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

October 12, 2011

Document Processing Desk (REGFEE)
ATTN: Shaja Joyner, PM 20
Registration Division
U.S. Environmental Protection Agency
Office of Pesticide Programs (7504P)
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, Virginia 22202-4501

WRA

Wagner Regulatory Associates, Inc P.O. Box 640 7217 Lancaster Pike, Suite A Hockessin, Delaware 19707

Dear Ms. Joyner,

Subject: Application to register a new end-use product containing a currently registered active ingredient - "Willowood Mepi Chlor 4.2%"

Wagner Regulatory Associates, Inc., as agent for Willowood USA, LLC (EPA Company Number 87290), is requesting registration of the above referenced product. This product is substantially similar to the mepiquat chloride product (Mepichlor 4.2% Liquid) registered by Arysta LifeScience North America, LLC under EPA Registration Number 66330-241

In support of this request, the following documents and studies are attached:

- · Letter from Willowood USA, LLC appointing Wagner Regulatory Associates, Inc. as its agent
- Application for Pesticide Registration (8570-1)
- Confidential Statement of Formula (8570-4), 2 copies
- Certification with Respect to Citation of Data (8570-34)
- Formulator's Exemption Statement (8570-27)
- Data Matrix (8570-35)
- Data Transmittal Document
- Product Identity and Composition data (3 copies) as outlined in the transmittal document
- Physical and Chemical Properties data (3 copies) as outlined in the transmittal document
- Draft labeling, 3 copies and CD
- Certification with Respect to Label Integrity
- A copy of the EPA approved label for EPA Reg. No. 66330-241 and
- · A copy of the receipt confirming payment of the required registration fees.

Willowood USA, LLC has been granted a 50% waiver for previous submissions in 2011 (see attached email). Willowood USA, LLC has submitted 50% of the required payment to U.S.EPA in accordance with PRIA II Fee Table – FY11/FY12, for action category R300 - \$717.00.

If you have any questions about this submission please contact the undersigned at <u>Lori@wagnerreg.com</u> or (302) 635-7281.

Respectfully submitted,

Lori Kohler

Agent for Willowood USA, LLC

Enclosures

	DATA TRANSMITTAL DOCUMENT
1.	Name and Address of Submitter
	Willowood LLC c/o Wagner Regulatory Associates PC Pox 640 Hockessin, DE 19707
2.	Regulatory Action In Support Of Which This Package Is Submitted
	Application for Registration Willowood Mepi Chlor 4.2%
3.	Transmittal Date
	October 12, 2011
4.	List of Submitted Studies
Service of the last of the las	Vol. 1: Wagner Regulatory Associates, Inc. (2011) Willowood Mepi Chlor 4.2% Product Chemistry - Product Identity and Composition, Description of Materials Used to Produce the Product, Description of the Production Process, Description of the Formulation Process, and Discussion of Formation of Impurities. Willowood USA, LLC, Roseburg, OR. Non-confidential portion 6 pages, Confidential portion 22 pages.
	Vol. 2: Wagner Regulatory Associates, Inc. (2011) Willowood Mepi Chlor 4.2% Preliminary Analysis, Certified Limits and Enforcement Analytical Method. Willowood USA, LLC, Roseburg, OR. Non-confidential portion 6 pages, Confidential portion 16 pages.
The second section of the sec	Vol. 3: Johnson, Lisa (2011) Willowood Mepiquat Chloride 4.2% Product Chemistry Series B – Product Properties: Color, Physical State, Odor, Oxidation/Reduction, Chemical Incompatibility, pH, Viscosity, and Density. Analytical & Regulatory Chemistry, Inc., Sumter, South Carolina. Report Number ARC-EX-1017-004-P-1. 13 pages.
James and State of the state of	Vol. 4: Wagner Regulatory Associates, Inc. (2011) Willowood Mepi Chlor 4.2% — Product Chemistry Data Waivers. Willowood USA, LLC, Roseburg, OR. 4 pages.
Comp	any Official: Lori Kohler Lori Kohler
	Name Signature
Comp	wany Name: Wagner Regulatory Associates, Inc. Agent for Willowood LLC

Company Contact:__

Lori Kohler

Name

122

(302) 635-7281 Phone



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

Panerwork Reduction Act Notice. The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration

and 0.25 hours per response for reregistration and special review activities, including time for recomments regarding burden estimate or any other aspect of this collection of information, inclu Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avento this address.	eading the instructions ding suggestions for a	and completing the necessary forms. Send reducing the burden to: Director, Collection
Certification with Respect to C	itation of Data	
Applicant's/Registrant's Name, Address, and Telephone Number Willowood USA, LLC, P.O. Box 640, Hockessin, DE 19707		EPA Registration Number/File Symbol 87290-
Active Ingredient(s) and/or representative test compound(s) Mepiquat chloride		Date October 12, 2011
General Use Pattem(s) (list all those claimed for this product using 40 CFR Part 158) Terrestrial Food & Non-food; Residential Indoor & Outdoor; Greenhouse Non-Food		Product Name Willowood Mepi Chlor 4.2%
NOTE: If your product is a 100% repackaging of another purchased EPA-registere submit this form. You must submit the Formulator's Exemption Statement (EPA Form		r all the same uses on your label, you do not need to
I am responding to a Data-Call-In Notice, and have included with this form a libe used for this purpose).	ist of companies se	nt offers of compensation (the Data Matrix form should
SECTION I: METHOD OF DATA SUPP	ORT (Check one me	ethod only)
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	✓ under the	the selective method of support (or cite-all option selective method), and have included with this form a list of data requirements (the Data Matrix form must be
SECTION II: GENERAL C	FFER TO PAY	
I hereby offer and agree to pay compensation, to other persons, with regard to	the approval of this	application, to the extent required by FIFRA.
SECTION III: CERTI	FICATION	
I certify that this application for registration, this form for reregistration, or thi application for registration, the form for reregistration, or the Data-Call-In response. In indicated in Section I, this application is supported by all data in the Agency's files that substantially similar product, or one or more of the ingredients in this product; and (2) is requirements in effect on the date of approval of this application if the application sougluses. I certify that for each exclusive use study cited in support of this registration	addition, if the cite- (1) concern the pro s a type of data that ht the initial registra	all option or cite-all option under the selective method is perties or effects of this product or an identical or would be required to be submitted under the data tion of a product of identical or similar composition and
the written permission of the original data submitter to cite that study.	•	antitus apritei tra arctitu 💆 telet rootsje en turkis arkellikus aktit arkeljente e niverstation taa arkelina a
I certity that for each study cited in support of this registration or reregistratic submitter; (b) I have obtained the permission of the original data submitter to use the scompensation have expired for the study; (d) the study is in the public literature; or (e) offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(d) amount and terms of compensation, if any, to be paid for the use of the study.	study in support of the I have notified in wri	als application; (c) all periods of eligibility for ting the company that submitted the study and have
I certify that in all instances where an offer of compensation is required, cop accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be evidence to the Agency upon request, I understand that the Agency may initiate action FIFRA.	e submitted to the	Agency upon request. Should I fail to produce such
I certify that the statements I have made on this form and all attachm knowingly false or misleading statement may be punishable by fine or impriso	ents to it are true, nment or both und	accurate, and complete. I acknowledge that any ler applicable law.
Signature Lingshills.	Date 10/12/2011	Typed or Printed Name and Title Lori Kohler, Agent

EPA Form 8570-34 (12-2003) Electronic and Paper versions available. Submit only Paper version.



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WASHINGTON, D.C. 20460

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	DATA MATR	IX 4	
Date: October 12, 2011		EPA Reg No./ File Symbol: 87290-	Page · of 3
Applicant's/Registrant's Name and Address:	Willowood USA, LLC c/o Wagner Regulatory Associates Inc.	Product:	
	P.O. Box 640 Hockessin, DE 19707	Willowood Mepi Chlor 4.2%	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC					
830.1550, 830.1600, 830.1620, 830.1650, 830.1670,	Product identity & Composition/Description of Materials Used to Produce the Product/Description of Production & Formulation Process/Discussion of Formation of Impurities		Willowood USA, LLC	Own	
830.1700	Preliminary Analysis		Willewood USA, LLC	Own	
830.1750	Certification of Limits		Willowood USA, LLC	Own	1
830.1800	Enforcement Analytical Method		Willowood USA, LLC	Own	
830.6302	Color	100777	Willowood USA, LLC	Own	
830.6303	Physical State		Willowood USA, LLC	Own	
830.6304	Odor	700.00	Willowood USA, LLC	Own	
830.6313	Stability to Normal & Elevated Temperatures		Willowood USA, LLC	Own	
830.6314	Oxidation/Reduction		Willowood USA, LLC	Own	
830.6315	Flammability		Willowood USA, LLC	Own	
830.6316	Explodability		Willowood USA, LLC	Own	
830.6317	Accelerated Storage Stability		Willowood USA, LLC	Own	
830.6319	Miscibility		Willowood USA, LLC	Own	
830.6320	Corrosion Characteristics		Willowood USA, LLC	Own	
830.6321	Dielectric Breakdown Voltage		Willowood USA, LLC	Own	
830.7000	plI		Willowood USA, LLC	Own	
830.7050	UV/Visible Light Absorption		Willowood USA, LLC	Own	
830.7100	Viscosity		Willowood USA, LLC	Own	0775.25
830.7200	Melting Point		Willowood USA, LLC	Own	
830.7220	Boiling Point		Willowood USA, LLC	Own	

Signature	Name and Title	Date
L m; W 1.	Lori Kohler,	10/12/2011
program	Agent for Willowood USA, LLC	



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Date: October 12, 2011 Applicant's/Registrant's Name and Address: Willowood USA, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 BPA Reg No./ File Symbol: 87290Product: Willowood Mepi Chlor 4.2%

Ingredient: Mepiquat chloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7300	Relative Density		Willowood USA, LLC	Own	
830,7370	Dissocation Constants in Water		Willowood USA, LLC	Own	
830.7520	Particle Size, Fiber Length, and Diameter Distribution		Willowood USA, LLC	Own	
830.7550, 7560, 7570	Octanol/Water Partition Coefficient		Willowood USA, LLC	Own	
830.7840, 7860	Water Solubility		Willowood USA, LLC	Own	
830.7950	Vapor Pressure		Willowood USA, LLC	Own	
870.1100, 870.1200,	Acute Oral Toxicity, Acute Dermal Toxicity,	Cite All	Bayer CropScience LP Research Triangle Park, NC	Pay	
870.1300, 870.2400,	Acute Inhalation Toxicity, Primary Eye Irritation.		Aceto Agricultural Chemicals Corp. Fort Washington, NY		
870.2500, 870.2600	Primary Dermal Irritation, Skin Sensitization		BASF Corporation Research Triangle Park, NC		
			Loveland Products, Inc. Greeley, CO		
			Albaugh Inc., Ankeny, IA		
			Nufarm USA, Inc.		
			Research Triangle Park, NC Arysta LifeScience North America,	-	
-			LLC, Cary, NC		
	3		Spray Drift Task Force Washington, DC		
			Gowan Pacific Group, LLC Yuma, AZ		100

Name and Title	Date
Lori Kohler,	10/12/2011
Agent for Willowood USA, LLC	125
	Lori Kohler,



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WASHINGTON, D.C. 20460

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EPA Reg No./ File Symbol: 87290-	Page of 3
Product:	
Willowood Mepi Chlor 4.2%	
	Product:

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
AND			Outdoor Residential Exposure Task Force, Washington, DC		
			Agricultural Reentry Task Force Washington, DC		
			Integrated Farming, Inc., Raleigh, NC FIFRA Endangered Species Task Force Washington, DC]	
			The Hide Group, Inc. Sardis, MS		
			Agricultural Handlers Exposure Task Force, Macon, MO		
			Gro-Pro, LLC Gig Harbor, WA		
			U.S.A. Ag Chemicals, Inc. Washington, DC		
			Tacoma Ag, LLC Brookfield, CT		
			Agsaver, LLC Washington, DC		
			Generic Endangered Species Task Force, Gig Harbor, WA		

Footnotes: 1) Certification of Limits is provided in the Confidential Statement of Formula EPA form 8574-4

Signature 2000	Name and Title	Date
Land Solla	Lori Kohler,	10/12/2011
ova 90 recor	Agent for Willowood USA, LLC	



United States

Environmental Protection Agency Washington, DC 20460

Formulator's Exemption Statement

(40 CFR 152.85)

Applicant's Name and Address EPA File Symbol/Registration Number 87290-Willowood USA LLC Product Name Willowood Mepi Chlor 4.2%

c/o Wagner Regulatory Associates, Inc.

P.O. Box 640

Hockessin, DE 19707

Date of Confidential Statement of Formula (EPA Form 8570-4)

10/12/2011

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Mepiquat chloride

- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).
- (3) Indicate by checking (A) or (B) below which paragraph applies:
- (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

- (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF.
- (4) The following active ingredients in this product qualify for the formulator's exemption.

	Source	
Active Ingredient Mepiquat chloride	Product Name	Registration Number
Signature,	Name and Title Lori Kohler, Agent	Date 10/12/2011

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 - EPA Copy 2 - Applicant copy



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WASHINGTON, D.C. 20460

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	DATA MATR	ix :	
Date October 12, 2011		EPA Reg No./ File Symbol. 87290-	Page 1 of 3
Applicant's/Registrant's Name and Address:	Willowood USA, LLC c/o Wagner Regulatory Associates Inc.	Product:	
	P.O. Box 640 Hockessin, DE 19707	Willowood Mepi Chlor 4.2%	

Guideline Reference Number Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC				
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	1
THANK IN THE RESIDENCE OF THE PARTY OF THE P		Willowood USA, LLC	Own	
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		Willowood USA, LLC	Own	1
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		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Qwn	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	

Signature 1 10 1	Name and Title	Date
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lori Kohler,	10/12/2011
Mugunea.	Agent for Willowood USA, LLC	
		100



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Date: October 12, 2011 Date: October 12, 2011 EPA Reg No./ File Symbol: 87290Page 2 of 3 Applicant's Registrant's Name and Address: Willowood USA, LLC c/o Wagner Regulatory Associates Inc. P.O. Box 640 Hockessin, DE 19707 BEPA Reg No./ File Symbol: 87290Product: Willowood Mepi Chlor 4.2%

Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note | Willowood USA, LLC | Own |

		52006755250505	ENGLISHE LOGG	E CONTRACTOR
2.5 miles 2		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Willowood USA, LLC	Own	
		Bayer CropScience LP Research Trungle Park, NC	Pay	
		Aceto Agricultural Chemicals Corp. Fort Washington, NY		
		BASE Corporation Research Triangle Park, NC		
		Loveland Products, Inc. Greeley, CO	A solution of the solution of	
		Albaugh Inc., Ankeny, IA		
		Nufarm USA, Inc. Research Triangle Park, NC		
		Arysta LifeScience North America, LLC, Cary, NC		
		Spray Drift Task Force Washington, DC		
1	- No An	Gowan Pacific Group, LLC Yuma, AZ		

Signature 1.0/00	Name and Title	Date
Signature Lii Khlu	Lori Kohler,	10/12/2011
July gorine	Agent for Willowood USA, LLC	120



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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	DATA MATR	IX	
Date: October 12, 2011		EPA Reg No./ File Symbol: 87290-	Page . of 3
Applicant's Registrant's Name and Address:	Willowood USA, LLC c/o Wagner Regulatory Associates Inc.	Product:	
	P.O. Box 640 Hockessin, DE 19707	Willowood Mepi Chlor 4.2%	

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
9-2-10 J. W. 11-2			Outdoor Kesidential Exposure Task Force, Washington, DC		
The state			Agricultural Reentry Task Force Washington, DC		
- 15 M. Commission			Integrated Farming, Inc., Raleigh, NC		
Table 100 March			FIFRA Endangered Species Task Force Washington, DC		
			The Hide Group, Inc. Sardis, MS		
			Agricultural Handlers Exposure Task Force, Macon, MO		
cillill			Gro-Pro, LLC Gig Harbor, WA		
			U.S.A. Ag Chemicals, Inc. Washington, DC]	
			Tacoma Ag. LLC Brookfield, CT		
			Agsaver, LLC Washington, DC		
			Generic Endangered Species Task Force, Gig Harbor, WA		

Footnotes: 1) Certification of Limits is provided in the Confidential Statement of Formula EPA form 8574-4

Signature // 0.30 A	Name and Title	Date
X mi delivi	Lori Kohler.	10/12/2011
All mence	Agent for Willowood USA, LLC	
		100

Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

EPA Registration #	Date Submitted to EPA	Electronic file name
87290-	10/12/2011	087290.xxxxx.20111012.V1.pdf

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Indil.	October 12, 2011
Signature	Date
Lori Kohler	
Name (typed)	
Agent for Willowood USA LLC	

Title

There is an ELECTRONIC LABEL for this action

You can use Acrobat to compare the e-label to the previous version (and find the changes). You can also use Acrobat to mark-up the e-label with your comments.

If e-label was submitted via

CD-ROM with paper application

then you will find e-label in

Electronic Label Library

If the e-label is not found in the ELL then it was probably not named correctly and could not be entered into the ELL. However, the file can be retrieved from the CD which is retained by the Front End.

or

If e-label was submitted via

XML E-Submission (no paper)

then you will find e-label in

Documentum

See overview of processing e-labels on other side of this sheet.

If you have any questions on e-labels, please contact one of your division e-label experts:

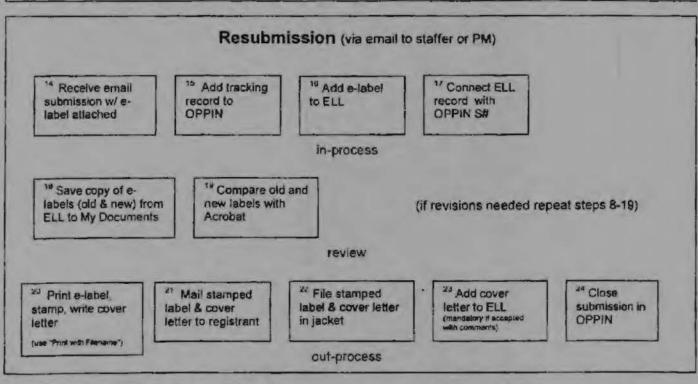
AD	Willie Abney	308-1689
	Renae Whitaker	308-7003
	Tracy Lantz	308-6415
BPPD		
RD	Tom Harris	308-9423

PROCESSING ELECTRONIC LABELS

(rev. 1/5/09, tch)

If e-label submitted via XML e-submission (not on CD-ROM), you may wish to find e-label in Documentum, save e-label to "My Documents", add e-label to ELL, start below at step 5.

Initial E-Label per application (on CD-ROM with paper via ITRMD) ITRMD receives Tracking ITRMD adds 4 ITRMD sends Connect ELL paper submission record added to e-label to ELL paper submission record with OPPIN OPPIN S# w/ e-label on CD to AD/BPPD/RD in-process Save copy of e-Review label 8 Add comments Print annotated elabel from ELL to to e-label label iff acceptable is p to step 20: My Documents (seve, add with commonist to filename (use "Print with Filename") review 12 Add annotated e-13 Close " File print of Send annotated annotated e-label e-label to registrant label to ELL submission in OPPIN and email in jacket via email (also send "How To Print") out-process



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techniques to know - filename for e-labels - "print with filename"

- compare / comment - printing with comments 66330-241



05/16/2011

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

W. A. Hawkins, Jr., Ph.D. Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513 MAY 1 6 2011:

Subject:

Application for Pesticide Notification (PRN 2007-4)

Submission date:

4/7/11

Product Name:

Mep i chlor 4.2% Liquid

EPA Reg. No.:

66330-241

EPA Decision Number:

447912

Dear Dr. Hawkins,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 2007-4 and finds that the action(s) requested fall within the scope of PRN2007-4.

The Agency acknowledges the addition of Container Disposal language in the *Storage* and *Disposal* Section on page 3 of 10.

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Erin Malone at 703-347-0253 or me at 703-308-3194.

Sincerely,

Shaja B! Joyner

Product Manager 20 Fungicide Branch

Registration Division (7504P)

lease read instructions on reverse before	ore completing form.		Form Approve	d, OMB No. 2070-0	0060, Approval expires 05-31-98
EPA Em	United States vironmental Protec	-	☐ Registra y ☐ Amenda		OPP Identifier Number
	Washington, DC	20460	Other:		
	Applica	ation for Pe	esticide - Sectio	n I	
Company/Product Number		2. EPA	Product Manager Shaja B. Joine		3. Proposed Classification
66330-241			Snaja-bJoine	:I= ·=-·- = ··	None Restricted
4. Company/Product (Name)		PM#	20		LI NOTE LI RESTROET
MEPICHLOR 4.2%					
Name and Address of Applicant (I	nclude ZIP Gode)				th FIFRA Section 3(c)(3)
Arysta LifeScience North Ame	rica, LLC	to:	my product is simil	ar or identical in	composition and labeling
15401 Weston Parkway, Suite			leg. No	8	
Cary, NC 27513		52027 0071			
Check if this is a new a	ddress	Produ	ct Name		
Sec. 4		Secti	on - II		
Amendment - Explain below.			Final printed lal	bels in response to	Agency letter dated
Resubmission in response to A	gency letter dated	-	Me Too* Applic		The second of th
Notification - Explain below.			Other - Explain		
Explanation: Use additional					
Notification of container dispersions of PR Notice 98-1	Osai changes per Ph	NOUCE 98-1	0 and 2007-4. In:	s notification is	consistent with the
labeling or the confidential st					
willfully make any false state					
Notice 98-10 and 40 CFR 15	2.46, this product ma	ay be in viola			
and penalties under sections					
There are no PRIA fees associ	ciated with this act	ion.			
1		Section	on - III		
1. Material This Product Will Be Pa			W. t 6 - 1 - 1 - 6 -		
Child-Resistant Packaging	Unit Packaging Yes		Water Soluble Pac	kaging	Type of Container Metal
No No	⊠ No		⊠ No	1	Plastic
⊠ N0	if "Yes"	No. per	If "Yes"	No. per	Glass
*Certification must	Unit Packaging wgt.		Package wgt.	container	Paper
be submitted					Other (Specify)
3. Location of Net Contents Informa	ation 4. Size(s) Retall Contai	ner	5. Location of	Label Directions
	tainer			On Label	
		2.5, 30 and 2	250 gations	On labelin	g accompanying product
6. Manner In Which Label is Affixed	to Product Litt	nograph	Other_		
	⊠ Pa	per glued			
	Ste	enciled			
		Section	on - IV		
1. Contact Point (Complete items di			to be contacted, if nec		
W. A. Hawkins, Jr.,		Title Reg	ulatory Manager	Telep	une No. (Include Area Code) 9 19-678-4886
I certify that the statements I have racknowledge that any knowingly fall	Certification and all see or misleading stateme	attachments the	ereto are true, accurate shable by fine or impriso	and complete. 1	6. Date Application Received (Stamped)
					J
under applicable law. 2. Signature	1	3. Title			1
	-1.1.		gulatory Manager		
	Ph.D.		gulatory Manager 05/02/11		



April 6, 2011

Ms. Shaja B. Joyner, PM 20 Document Processing Desk (NOTIF) Office of Pesticide Programs - 7504P U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202

Subject: MEPICHLOR 4.2% LIQUID (EPA Reg. No. 66330-241)

Notification of Change in Container Disposal Instructions

Dear Ms. Joyner:

This is to notify the Agency that Arysta LifeScience North America, LLC is adding container disposal instructions for rigid non-refillable containers with capacities greater than five gallons or 50 pounds to the label of MEPICHLOR 4.2% LIQUID (EPA Reg. No. 66330-241). The container disposal language being used has been copied directly from PR Notice 2007-4. This PR Notice allows changes of this type to be completed by notification. Two copies of the label are enclosed: a clean copy and a copy with the changes clearly marked.

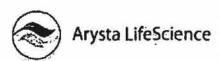
We believe this is a non-PRIA action that does not require a fee payment. If you have any questions or require additional information, you may contact me at (919) 678-4886 or by e-mail at alex.hawkins@arystalifescience.com.

Sincerely,

W. A. Hawkins, Jr., Ph.D.

Regulatory Manager

NOTIFICATION MAY 1 6 2011



MEPICHLOR 4.2% LIQUID

ACTIVE INGREDIENT:

Contains 0.35 pounds active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in détail.)

	FIRST AID
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	 Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR	Take off contaminated clothing.
CLOTHING:	 Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice

EMERGENCY CONTACT: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6952 for emergency medical treatment information. In case of large-scale spillage regarding this product, call CHEMTREC at 1-800-424-9300.

See Additional Precautionary Statements Inside Booklet

EPA Reg. No. 66330-241 AD 02272009 EPA Est. No.

Net Contents:

Product of U.S.A.

Manufactured For:

ARYSTA LIFESCIENCE NORTH AMERICA, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin and clothing.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart.

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate.
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should

- · Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal area below the high water mark. Do not contaminate water when disposing of rinsate or equipment washwater. Do not contaminate water by cleaning of equipment of disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- 2. Chemical resistant gloves made of any waterproof material
- Shoes plus socks

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in locked area in original container only, with lid tightly closed. Store separately from other pesticides and fertilizers, food and feed to prevent contamination. Use care to avoid puncturing container during storage or transit. In case of a spill or leaking container, call CHEMTREC at 1-800-424-9300.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Rigid Non-refillable containers that are small enough to shake (i.e., with capacities less than 5 gallons or 50 lbs)

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Rigid Non-refillable containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ½ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or rink tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

GENERAL INFORMATION

Mepichlor 4.2 is an Arysta LifeScience North America, LLC product which is equivalent to PIX Piant Regulator

produced by BASF Corporation. Mepichlor 4.2 is a foliar applied plant regulator. It allows the grower to manage the cotton plant for short-season production leading to reduced risk of yield and quality loss due to delayed and prolonged harvest. Benefits derived from the use of Mepichlor 4.2 include increased early boll retention and/or larger bolls, reduced plant height which provides a more open canopy, less boll rot, improved defoliation, less trash and lower ginning costs, better harvest efficiency and a darker leaf color. These benefits can provide for earlier maturity and often result in improved yields.

Early Application of Mepichlor 4.2

Growers may use low-rate multiple applications, or higher, less frequent dosages which provide maximum flexibility under a wide range of growing conditions. Mepichlor 4.2 should not be applied to plants under stress. If stress is alleviated, plants should be evaluated for vegetative growth before additional applications are made. Mepichlor 4.2 may be tank mixed with insecticides/miticides when application timing coincide. (See RESTRICTIONS AND LIMITATIONS)

Fields should be carefully scouted. Mepichlor 4.2 should not be applied if plants are under any form of stress. In the absence of stress, a maximum of five low rate applications can be made each season. The first application can be applied at the matchhead square stage. The rate and timing of subsequent applications depend on growing conditions and desired benefits. Under good growing conditions, additional treatments of 2-4 fluid ounces per acre can be made at 7-14 day intervals. Higher rates of Mepichlor 4.2 (1/4 - 3/4 pt/A) should be used if vegetative growth becomes excessive or a greater degree of height control is desired. Do not use more than a total of 48 fl oz of Mepichlor 4.2 per acre in a growing season.

If significant loss of squares and/or young boils has occurred earlier due to insect pressure or other stresses, but now these stresses have been alleviated, the need for Mepichlor 4.2 is increased - excess vegetative growth is tikely because of poor fruit load.

Late Season Application of Mepichlor 4.2

Late application of Mepichlor 4.2 (approximately during the fourth to sixth week of blooming) can provide certain benefits to cotton. However, it should not and does not substitute for early season use, the time of the greatest benefit from the use of Mepichlor 4.2. Late season application can lead to one or more of the following: reduction in late season vegetative growth or regrowth after cutout or defoliation, more complete and manageable cutout, better defoliation, earlier maturity and reduction in trash and lower ginning costs. Some of these effects may favorably influence the yield potential and fiber quality. A late season application of Mepichlor 4.2 should be applied only if fields are not drought or nutrient stressed; that is, those fields likely to experience additional vegetative growth or regrowth. However, fields that are very rank and extremely vigorous due to a combination of poor boil load and excellent growing conditions may not respond as much as desired to late season applications at the suggested rates.

Timing for Late Season Applications

A. On fields where cotton cuts out and then starts regrowth: apply when regrowth begins, as evidenced by new leaves in the terminal and stem elongation. This would often, but not always, be in the period of 5-6 weeks after the first bloom.

B. On fields where cotton never completely cuts out, apply Mepichlor 4.2 when there are 4-6 nodes above the white flower (NAWF). Measure NAWF by counting the number of mainstem nodes from the first position white bloom (the one closest to the mainstem) to the terminal. Count the node with the first position white bloom as zero and the last node in the terminal, which is counted, should have a leaf at least the size of a quarter. Generally, the NAWF first reaches 4-6 during the fourth to sixth week of bloom. During this time period, the NAWF should be decreasing about one node every 5-6 days - if its rate of decrease is less, this means that the plant is not cutting out scon enough (the crop is too vigorous). If the fifth week of bloom arrives and NAWF is still above 5-6, apply Mepichlor 4.2.

Use Rate for Late Season Application

Mepichlor 4.2 should be applied at a rate between 1/2 pint to 1 1/2 pints per acre. Use the lower rate range on cotton with only moderate additional growth potential, and the higher rate range on fields likely to continue vigorous growth. Total seasonal use per season (early plus late application) must not exceed 3 pt/A.

SPRAY VOLUMES

Thorough coverage is required

IN WATER:

Areas other than California:
Ground Application - Use a minimum of 2 gallons of water per acre.
Aerial Application - Use a minimum of 2 gal/A.
California Only:
Ground Application - Use a minimum of 5 gal/A.
Aerial Application - Use a minimum of 5 gal/A.

IN OIL:

Use a minimum total oil volume of 2 pt/A for ultra low volume (ULV) aerial application. Application in oil is permitted only in AL, AR, FL, GA, LA, MO, MS, NC, OK, SC, TN and TX. Use a nonphytotoxic oil concentrate which contains either a petroleum or vegetable oil base, contains only EPA-exempt ingredients, provides good mixing quality in the jar test (see "Compatibility" section), and has been used successfully in your locality. The oil diluent should contain emulsifiers which provide good mixing quality. If the oil does not contain an emulsifier, one must be added during mixing at a volume equal to 3% of the final volume of the mixing tank. Do not apply Mepichlor 4.2 as ULV without using emulsifiers. If using a vegetable oil based product, only highly refined concentrates should be used.

Mix under constant agitation. Pour one-half of the required volume of oil into the spray tank, followed by the emulsifier (if the oil does not already contain one) at approximately 3% of the final spray tank volume, and then pour in the Mepichlor 4.2 while the remainder of the oil is added. Constant, moderate agitation is required during and after mixing and during application.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipmentand-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- . The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

INFORMATION ON DROPLET SIZE: The most effective way to reduce drift potential is to apply large dropiets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows
 produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower
 pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of
 increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH: For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND: Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

RAIN WASH-OFF PRECAUTION

The use of a high quality, EPA exempt surfactant will enhance the uptake of Mepichior 4.2 into the plant. Therafore, the use of a surfactant allows applications made as little as 4 hours prior to rainfall to be effective. Without a surfactant, the product should be used at least 8 hours prior to expected rainfall.

COMPATIBILITY

Mepichlor 4.2 is water based, and is compatible with most insecticides and miticides. If compatibility is in doubt, perform a jar test to check for compatibility. Mepichlor 4.2 can be used with foliar fertilizers if your prior experience shows the combination is compatible and will not injure cotton under your conditions. Caution should be used when applying with foliar fertilizers under conditions of extreme heat.

RESTRICTIONS AND LIMITATIONS

- Insect or mite damage to Mepichlor 4.2 treated crops can lead to yield decreases or other undesirable effects.
- Do not apply Mepichlor 4.2 to cotton that is under stress. If using low rate multiple applications, discontinue use until your crop has overcome any stress.
- Do not apply more than 48 fl oz of Mepichlor 4.2 per acre per season. The sum of all products and formulations containing mepiquat chloride must not exceed 0.132 pounds (60 grams) of mepiquat chloride per acre per season.
- Do not apply Mepichlor 4.2 within 30 days of harvest.
- Do not graze or feed cotton forage to livestock.
- Mepichlor 4.2 contains a dye and effectiveness is not related to the color of the spray solution.
- Do not tank mix with other products other than those mentioned under "COMPATIBILITY".
- Do not plant another crop within 75 days after last treatment.

TIME AND RATE OF APPLICATION SHORT-STAPLE AND LONG-STAPLE (PIMA) COTTON

Directions for use should be observed as specified below:

I. HIGH RATE SINGLE OR MULTIPLE APPLICATIONS:

Use these instructions when you are not able to start growth regulation treatments early, or when you want to make the fewest number of applications.

AREA	TIME OF APPLICATION	RATE PER ACRE	
	First Application	8 to 16 fl oz	
AL, AR, AZ, CA, FL, GA, LA, MO, MS, NM, NC, SC, TN, VA	Apply when cotton is actively growing and is between 20 and 30" tall, but not more that 7 days beyond early bloom (5-6 blooms per 25 row feet). Also apply if cotton is 24" tall and has no blooms.		
	Second Application	8 to 16 fl oz	
	Make another application in 2 to 3 weeks if additional growth control is desired.		
	Third Application for control of excessive Vegetative Growth	8 to 16 fl oz	
	If the cotton field has a history of vigorous growth or a third application 1 to 2 weeks after the second application.		
	Late Season Application	8 to 24 fl oz	
	See section titled "Late Season Application of Mepichlor 4.2".		
OK, TX (except Rio Grande	First Application	8 fl oz	
Valley)	Apply when cotton is in the early		

Areas without a history of excessive vegetative growth	bloom stage (5-6 blooms per 25 row feet) and actively growing. Also apply if no blooms are present and the cotton is 20" tall and actively growing. See RESTRICTIONS AND LIMITATIONS.	
1	Second Application	8 fl oz
	Make a second application in 2 to 3 weeks if additional growth control is desired.	
	Third Application	8 fl oz
	If conditions after the second application of Mepichlor 4.2 continue to favor vigorous growth, apply a third application 1 to 2 weeks after the second application.	
- Safe	Late Season Application: See section titled "Late Season Application of Mepichlor 4.2".	8 to 24 fl oz
OK, TX	First Application	16 fl oz
Areas with a history of		
excessive vegetative growth	are in early bloom stage (5-6 blooms per 25 row feet) and an average of 24" tall. Treatments can also be made when cotton height averages a minimum of 20" and a maximum of 30" provided cotton is not more than 7 days beyond early bloom. If cotton is 24" tall and has no blooms, apply Mepichlor 4.2 See RESTRICTIONS AND LIMITATIONS	
	Second Application	8 to 16 fl oz
	For fields with a history of excessive growth, or if conditions after the first application favor excessive growth, make a second application in 2 to 3 weeks.	
	Third Application	8 to 16 fl oz
	If conditions after the second application of Mepichlor 4.2 continue to favor vigorous growth, apply a third application 1 to 2 weeks after the second application.	
	Late Season Application: See section titled "Late Season Application of Mepichlor 4.2".	8 to 24 fl oz

II. LOW-RATE MULTIPLE APPLICATIONS:

Use these instructions when you want to maintain maximum flexibility in plant regulation treatments.

AREA	TIME OF APPLICATION	HEAT 아니라 아니아 아니는 아니라 아니라 아니라 아니아 아니아 아니아 아니아 아니아 아니아 아니아	
AL, AR, AZ, CA, FL,	First Application:	2fl oz	4 fl oz
	Apply at the matchhead	21102	7,100
	Second Application:	2 fl oz	4 fl oz
	7-14 days later, or when regrowth occurs.		
	Third Application	2 to 4 fl oz*	4 to 8 fl oz*
No	7-14 days later, or when regrowth occurs.		
	Fourth Application	2 to 8 fl oz*	4 to 12 fl oz*
	7-14 days later, or when regrowth occurs.		
	Fifth Application	4 to 8 fl oz*	4 to 12 fl oz*
	(If needed): 7-14 days later, or when regrowth occurs.		_
	Application: See section titled "Late Season Application of Mepichlor 4.2".	8 to 16 fl oz*	12 to 24 fl oz*

^{*}Use the higher rate if previous application was not made or if growing conditions favor excessive growth.

¹Matchhead square is when the first square of a typical cotton plant is about the size of a match head (about 1/8" in diameter). Make the first application when 50% of the plants have one or more matchhead squares.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America Corporation ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

MEPICHLOR 4.2 LIQUID (MASTER) 022709, NOTIFICATION 04/04/11



United States

Environmental Protection Agency

Washington, DC 20460

Formulator's Exemption Statement

(40 CFR 152.85)

Applicant's Name and Address

EPA File Symbol/Registration Number

87290-GN

Willowood USA LLC

c/o Wagner Regulatory Associates, Inc.

P.O. Box 640

Hockessin, DE 19707

Product Name

Willowood Mepi Chlor 4.2%

Date of Confidential Statement of Formula (EPA Form 8570-4)

11/28/2011

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Mepiquat chloride

- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR section 158.50(e)(2) or (3).
- (3) Indicate by checking (A) or (B) below which paragraph applies:
- (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

- (B) The Confidential Statement of Formula (CSF)(EPA Form 8570-4) referenced above and on file with the EPA is complete, current, an accurate and contains the information required on the current CSF,
- (4) The following active ingredients in this product qualify for the formulator's exemption.

Source				
Active Ingredient Mepiquat chloride	Product Name	Registration Number		
Signature Loui Khlu	Name and Title Lori Kohler, Agent	Date 11/28/2011		

EPA Form 8570-27 (Rev. 06-2004)

Copy 1 - EPA Copy 2 - Applicant copy

FOR OFFICIAL USE ONLY

ILE SYMBOL	
87290-GN	
EGISTRATION NO.	

CONFIDENTIAL STATEMENT OF FORMULA ENCLOSED

DATE	SUBMITTED BY (V)				
	APPLICANT	BASIC SUPPLIER			
10/13/11		112			
1.4	500	PLE ST			
	2500				
ES P. S.	PG- 30 VI				
	C. S.	1.383.0			
	ALC: NO	March 1			
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Do Not Write Comments, Formula, or Parts of Formula on This Envelope

NOTE

It shall be unlawful—for any person to use for his own advantage or to reveal, other than to the Secretary, or officials or employees of the United States Department of Agriculture or other Federal agencies, or to the courts in response to a subpoena, or to physicians, and in emergencies to pharmacists and other qualified persons, for use in the preparation of antidotes, in accordance with such directions as the Secretary may prescribe, any information relative to formulas of products acquired by authority of Section 4 of the "Federal Insecticide, Fungicide, and Rodenticide Act."

Pages 149-62 -	*Confidential	Statements of 1	Formula may	be entitled to	confidential tr	eatment*